

# Memorandum

# Florida Department of Environmental Protection

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TO: Joseph Kahn

THRU: Trina Vielhauer *TV*  
Jeff Koerner *JK*

FROM: Jonathan Holtom *JH*

DATE: March 14, 2008

SUBJECT: Project No. 0950137-019-AC  
Final Construction Permit For Orlando Utilities Commission (OUC)  
Unit 2 Secondary Superheater Tube Replacement Project

Attached for your approval and signature is a final construction permit for OUC's Stanton Energy Center. This permit authorizes the replacement of the secondary superheater tubes for Unit 2.

The Public Notice requirements were met on February 21<sup>st</sup> by publishing in the Orlando Sentinel. No comments were received from either the public or the applicant, in response to this Public Notice. No petitions were filed for an Administrative Hearing.

I recommend your approval and signature.

Attachments

TLV/jk/jh

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
**NOTICE OF FINAL PERMIT**

In the Matter of an Application for Permit by:  
Jan C. Aspuru, Vice President, Power Resources.  
Orlando Utilities Commission  
Post Office Box 3193  
Orlando, Florida 32802

Air Permit No. 0950137-019-AC  
Stanton Energy Center  
Orange County

Enclosed is Final Permit Number 0950137-019-AC. This permit authorizes the replacement of the secondary superheater tubes on Unit 2. This permit is issued pursuant to Chapter 403, Florida Statutes.

Any party to this order has the right to seek judicial review of it under section 120.68 of the Florida Statutes, by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the clerk of the Department of Environmental Protection in the Office of General Counsel, Mail Station #35, 3900 Commonwealth Boulevard, Tallahassee, Florida, 32399-3000, and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The notice must be filed within 30 days after this order is filed with the clerk of the Department.

Executed in Tallahassee, Florida.



Trina L. Vielhauer, Chief  
Bureau of Air Regulation

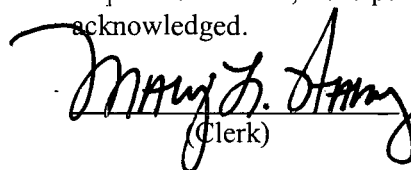
**CERTIFICATE OF SERVICE**

The undersigned duly designated deputy agency clerk hereby certifies that this Notice of Final Permit (including the Final Determination and the Final Permit) was sent by e-mail with return receipt requested before the close of business on 3/19/08 to the persons listed:

Jan C. Aspuru, OUC: [jaspuru@ouc.com](mailto:jaspuru@ouc.com)  
Denise M. Stalls, OUC: [dstalls@ouc.com](mailto:dstalls@ouc.com)  
Jim Bradner, DEP CD: [james.bradner@dep.state.fl.us](mailto:james.bradner@dep.state.fl.us)  
Lori Cunniff, Orange County EPD: [lori.cunniff@ocfl.net](mailto:lori.cunniff@ocfl.net)  
Jim Little, EPA Region 4: [little.james@epamail.epa.gov](mailto:little.james@epamail.epa.gov)  
Katy Forney, EPA Region 4: [forney.kathleen@epa.gov](mailto:forney.kathleen@epa.gov)  
Scott Osbourn, P.E., Golder Associates: [sosbourn@golder.com](mailto:sosbourn@golder.com)  
Mike Halpin, DEP Siting: [mike.halpin@dep.state.fl.us](mailto:mike.halpin@dep.state.fl.us)

Clerk Stamp

**FILING AND ACKNOWLEDGMENT FILED**, on this date, pursuant to §120.52, Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.



(Clerk)

3/19/08  
(Date)

## **FINAL DETERMINATION**

Orlando Utilities Commission  
Stanton Energy Center  
Air Permit No. 0950137-019-AC

The Department distributed a public notice package on February 15, 2008, to authorize the replacement of the secondary superheater tubes for Unit 2 at the OUC Stanton Energy Center, which is located at 5100 Alafaya Trail, Orlando, Orange County. The Public Notice of Intent to Issue was published in the Orlando Sentinel on February 21, 2008.

### **COMMENTS/CHANGES**

No comments were received from the public or from the applicant.

### **CONCLUSION**

The final action of the Department is to issue the final permit as it was issued in the draft permit.



# Florida Department of Environmental Protection

Bob Martinez Center  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

Charlie Crist  
Governor

Jeff Kottkamp  
Lt. Governor

Michael W. Sole  
Secretary

## PERMITTEE:

Orlando Utilities Commission (OUC)  
P.O. Box 3193  
Orlando, Florida 32802

### *Authorized Representative:*

Jan C. Aspuru, Vice President, Power Resources

Permit No. 0950137-019-AC  
Curtis H. Stanton Energy Center  
Stanton Unit 2  
SIC No. 4911  
Secondary Superheater Tube Replacement Project  
Orange County, Florida  
Permit Expires: March 31, 2009

## PROJECT AND LOCATION

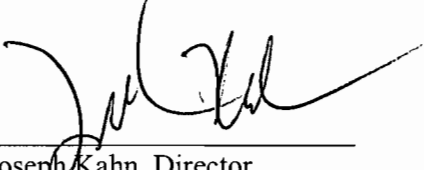
This permit authorizes the replacement of the secondary superheater tubes on Unit 2 at the OUC Curtis H. Stanton Energy Center. The facility is located at 5100 Alafaya Trail, Orlando, Orange County.

## STATEMENT OF BASIS

This air pollution construction permit is issued under the provisions of Chapter 403 of the Florida Statutes (F.S.), and Chapters 62-4, 62-204, 62-210, 62-212, 62-296, and 62-297 of the Florida Administrative Code (F.A.C.) and Title 40, Part 60 of the Code of Federal Regulations (CFR). The permittee is authorized to install the proposed equipment in accordance with the conditions of this permit and as described in the application, approved drawings, plans, and other documents on file with the Florida Department of Environmental Protection (the Department).

## CONTENTS

- Section 1. General Information
- Section 2. Administrative Requirements
- Section 3. Emissions Units Specific Conditions
- Section 4. Appendix GC

  
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Joseph Kahn, Director  
Division of Air Resource Management

3/18/08  
(Date)

JK/tlv/jfk/jh

**SECTION 1. GENERAL INFORMATION**

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**FACILITY AND PROJECT DESCRIPTION**

The existing facility consists of two 468 megawatt (MW) fossil fuel fired steam electric generating units (Units 1 and 2), and one 640 MW combined cycle unit. There are storage and handling facilities for solid fuels, fly ash, limestone, gypsum, slag, and bottom ash.

As noted above, the project under this permit is for the replacement of the secondary superheater tubes on Unit 2. The tubes are being repaired and replaced because metallurgical analyses indicate advanced and irreparable erosion. The new replacement tubes are characterized as functionally equivalent or a "like-kind" replacement, although the type of replacement material (SA213 TP304H) will be slightly different from the existing material and is expected to be more corrosion resistant than the existing material. The project is scheduled to begin on March 15, 2008, will require about 8 weeks to complete, and is estimated to cost about \$5 million.

<b>EU ID</b>	<b>Emissions Unit Description</b>
002	Fossil Fuel Fired Steam Electric Generator No. 2

**REGULATORY CLASSIFICATION**

The facility is a potential major source of hazardous air pollutants (HAP).

The facility operates existing units subject to the Acid Rain provisions of Title IV of the Clean Air Act (CAA).

The facility is a Title V major source of air pollution in accordance with Chapter 62-213, F.A.C.

The facility is a major Prevention of Significant Deterioration (PSD) stationary source in accordance with Rule 62-212.400, F.A.C.

The facility operates units subject to the Standards of Performance for New Stationary Sources pursuant to 40 CFR Part 60.

The facility is subject to the Federal Clean Air Interstate Rule (CAIR) in accordance with the Final Department Rules issued pursuant to CAIR as implemented by the Department in Rule 62-296.470, F.A.C.

The facility is subject to the Federal Clean Air Mercury Rule (CAMR) implemented by the Department in Rule 62-296.480, F.A.C.

The facility operates units that were certified under the Florida Power Plant Siting Act, 403.501-518, F.S.

**RELEVANT DOCUMENTS**

The following relevant documents are not a part of this permit, but helped form the basis for this permitting action: the permit application and the Department's Technical Evaluation and Preliminary Determination.

## SECTION 2. ADMINISTRATIVE REQUIREMENTS

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1. Permitting Authority: The Permitting Authority for this project is the Bureau of Air Regulation in the Division of Air Resource Management of the Department. The mailing address for the Bureau of Air Regulation is 2600 Blair Stone Road, MS #5505, Tallahassee, Florida 32399-2400.
2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Central District Office. The mailing address and phone number of the Central District Office are: Department of Environmental Protection, Central District Office, 3319 Maguire Boulevard, Suite 232, Orlando Florida 32803-3767. Telephone: (407) 894-7555. Fax: (407) 897-5963.
3. Appendices: The following Appendix is attached as part of this permit: Appendix GC (General Conditions).
4. Applicable Regulations, Forms and Application Procedures: Unless otherwise specified in this permit, the construction and operation of the subject emissions units shall be in accordance with the capacities and specifications stated in the application. The facility is subject to all applicable provisions of: Chapter 403, F.S.; and Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-214, 62-296, and 62-297, F.A.C. Issuance of this permit does not relieve the permittee from compliance with any applicable federal, state, or local permitting or regulations.
5. New or Additional Conditions: For good cause shown and after notice and an administrative hearing, if requested, the Department may require the permittee to conform to new or additional conditions. The Department shall allow the permittee a reasonable time to conform to the new or additional conditions, and on application of the permittee, the Department may grant additional time. [Rule 62-4.080, F.A.C.]
6. Modifications: No emissions unit shall be constructed or modified without obtaining an air construction permit from the Department. Such permit shall be obtained prior to beginning construction or modification. [Rules 62-210.300(1) and 62-212.300(1)(a), F.A.C.]
7. Title V Permit: This permit authorizes specific modifications and/or new construction on the affected emissions units as well as initial operation to determine compliance with conditions of this permit. A Title V operation permit is required for regular operation of the permitted emissions unit. The permittee shall apply for a Title V operation permit at least 90 days prior to expiration of this permit, but no later than 180 days after completing the required work and commencing operation. To apply for a Title V operation permit, the applicant shall submit the appropriate application form, compliance test results, and such additional information as the Department may by law require. The application shall be submitted to the Bureau of Air Regulation with copies to the Compliance Authority. [Rules 62-4.030, 62-4.050, 62-4.220, and Chapter 62-213, F.A.C.]

### SECTION 3. EMISSIONS UNITS SPECIFIC CONDITIONS

This section of the permit addresses the following existing emissions unit.

#### Emissions Unit 002

Fossil Fuel Fired Steam Generator 2 is a wall-fired, dry bottom boiler, firing pulverized coal as the primary fuel and No. 6 fuel oil for purposes of startup and flame stabilization. The unit has a maximum heat input rate of 4,286 million British thermal units (MMBtu) per hour with a nominal generating capacity of 468 MW. The unit is equipped with an electrostatic precipitator (ESP) for control of particulate matter (PM/PM<sub>10</sub>), a wet flue gas desulfurization (WFGD) system for sulfur dioxide (SO<sub>2</sub>) control, and low NO<sub>x</sub> burners for nitrogen oxides (NO<sub>x</sub>) control. Unit 2 is also equipped with a selective catalytic reduction (SCR) system for further control of NO<sub>x</sub> emissions. The following parameters are continuously monitored: NO<sub>x</sub>, opacity, SO<sub>2</sub>, carbon dioxide (CO<sub>2</sub>), and stack gas flow rate.

#### APPLICABLE STANDARDS AND REGULATIONS

1. Applicable Requirements: Issuance of this permit does not relieve the facility owner or operator from compliance with any applicable federal, state, or local permitting requirements or regulations. The requirements of this permit are in addition to all other applicable requirements. [Rule 62-210.300, F.A.C.]

#### GENERAL OPERATION REQUIREMENTS

2. Unconfined Particulate Emissions: During the construction period, unconfined particulate matter emissions shall be minimized by dust suppressing techniques such as covering and/or application of water or chemicals to the affected areas, as necessary. [Rule 62-296.320(4), F.A.C.]
3. Source Obligation: At such time that a particular source or modification becomes a major stationary source or major modification (as these terms were defined at the time the source obtained the enforceable limitation) solely by exceeding its projected actual emissions, then the requirements of subsections 62-212.400(4) through (12), F.A.C., shall apply to the source or modification as though construction had not yet commenced on the source or modification. [Rule 62-212.400(12)(c), F.A.C.]

#### AUTHORIZED REPAIRS AND REPLACEMENT

4. Secondary Superheater Tubes: The permittee is authorized to repair/replace the secondary superheater tubes for Unit 2, as described in the application. The new replacement tubes are characterized as functionally equivalent or a "like-kind" replacement, although the type of replacement material will be slightly different from the existing material and is expected to be more corrosion resistant than the existing material. This permit only authorizes the repair/replacement of the secondary superheater tubes and does not authorize any increases in allowable heat input or allowable pollutant emissions rates.  
[Applicant Request.]

#### REPORTING AND NOTIFICATION REQUIREMENTS

5. Notification: Within one week of commencing the secondary superheater tube replacement project, the permittee shall notify the Compliance Authority that the project has commenced and provide a general schedule of construction activities. Within one week following the end of construction, the permittee shall notify the Compliance Authority that the project was completed.  
[Rule 62-4.210, F.A.C.]

### SECTION 3. EMISSIONS UNITS SPECIFIC CONDITIONS

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6. PSD Applicability Monitoring and Reporting Requirements:

- a. The permittee shall monitor the emissions of NO<sub>x</sub>, SO<sub>2</sub>, CO, PM, SAM, lead and VOC; and, using the most reliable information available, calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of 5 years from the issuance date of this permit. Emissions shall be computed in accordance with Rule 62-210.370, F.A.C.
- b. The permittee shall report to the Department within 60 days after the end of each year during which records must be generated under subparagraph 62-212.300(1)(e)1., F.A.C., setting out the unit's annual emissions during the calendar year that preceded submission of the report. The report shall contain the following:
  1. The name, address and telephone number of the owner or operator of the major stationary source;
  2. The annual emissions as calculated pursuant to subparagraph 62-212.300(1)(e)1., F.A.C.;
  3. If the emissions differ from the preconstruction projection, an explanation as to why there is a difference; and,
  4. Any other information that the owner or operator wishes to include in the report.
- c. The information required to be documented and maintained pursuant to subparagraphs 62-212.300(1)(e)1. and 2., F.A.C., shall be submitted to the Department, which shall make it available for review to the general public.

[Rule 62-212.300(1)(e), F.A.C.]

7. Computation of Emissions: The owner or operator shall compute emissions in accordance with the requirements set forth below:

- a. Basic Approach. The owner or operator shall employ, on a pollutant-specific basis, the most accurate of the approaches set forth below to compute the emissions of a pollutant from an emissions unit; provided, however, that nothing in this rule shall be construed to require installation and operation of any continuous emissions monitoring system (CEMS), continuous parameter monitoring system (CPMS), or predictive emissions monitoring system (PEMS) not otherwise required by rule or permit, nor shall anything in this rule be construed to require performance of any stack testing not otherwise required by rule or permit.
  1. If the emissions unit is equipped with a CEMS meeting the requirements of paragraph 62-210.370(2)(b), F.A.C., the owner or operator shall use such CEMS to compute the emissions of the pollutant, unless the owner or operator demonstrates to the department that an alternative approach is more accurate because the CEMS represents still-emerging technology.
  2. If a CEMS is not available or does not meet the requirements of paragraph 62-210.370(2)(b), F.A.C., but emissions of the pollutant can be computed pursuant to the mass balance methodology of paragraph 62-210.370(2)(c), F.A.C., the owner or operator shall use such methodology, unless the owner or operator demonstrates to the department that an alternative approach is more accurate.
  3. If a CEMS is not available or does not meet the requirements of paragraph 62-210.370(2)(b), F.A.C., and emissions cannot be computed pursuant to the mass balance methodology, the owner or operator shall use an emission factor meeting the requirements of paragraph 62-210.370(2)(d), F.A.C., unless the owner or operator demonstrates to the department that an alternative approach is more accurate.
- b. Continuous Emissions Monitoring System (CEMS).
  1. An owner or operator may use a CEMS to compute emissions of a pollutant for purposes of this rule provided:
    - (a) The CEMS complies with the applicable certification and quality assurance requirements of 40 CFR Part 60, Appendices B and F, or, for an acid rain unit, the certification and



### SECTION 3. EMISSIONS UNITS SPECIFIC CONDITIONS

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quality assurance requirements of 40 CFR Part 75, all adopted by reference at Rule 62-204.800, F.A.C.; or

- (b) The owner or operator demonstrates that the CEMS otherwise represents the most accurate means of computing emissions for purposes of this rule.
  2. Stack gas volumetric flow rates used with the CEMS to compute emissions shall be obtained by the most accurate of the following methods as demonstrated by the owner or operator:
    - (a) A calibrated flowmeter that records data on a continuous basis, if available; or
    - (b) The average flow rate of all valid stack tests conducted during a five-year period encompassing the period over which the emissions are being computed, provided all stack tests used shall represent the same operational and physical configuration of the unit.
  3. The owner or operator may use CEMS data in combination with an appropriate f-factor, heat input data, and any other 63 necessary parameters to compute emissions if such method is demonstrated by the owner or operator to be more accurate than using a stack gas volumetric flow rate as set forth at subparagraph 62-210.370(2)(b)2., F.A.C., above.
- c. Mass Balance Calculations.
1. An owner or operator may use mass balance calculations to compute emissions of a pollutant for purposes of this rule provided the owner or operator:
    - (a) Demonstrates a means of validating the content of the pollutant that is contained in or created by all materials or fuels used in or at the emissions unit; and
    - (b) Assumes that the emissions unit emits all of the pollutant that is contained in or created by any material or fuel used in or at the emissions unit if it cannot otherwise be accounted for in the process or in the capture and destruction of the pollutant by the unit's air pollution control equipment.
  2. Where the vendor of a raw material or fuel which is used in or at the emissions unit publishes a range of pollutant content from such material or fuel, the owner or operator shall use the highest value of the range to compute the emissions, unless the owner or operator demonstrates using site-specific data that another content within the range is more accurate.
  3. In the case of an emissions unit using coatings or solvents, the owner or operator shall document, through purchase receipts, records and sales receipts, the beginning and ending VOC inventories, the amount of VOC purchased during the computational period, and the amount of VOC disposed of in the liquid phase during such period.
- d. Emission Factors.
1. An owner or operator may use an emission factor to compute emissions of a pollutant for purposes of this rule provided the emission factor is based on site-specific data such as stack test data, where available, unless the owner or operator demonstrates to the department that an alternative emission factor is more accurate. An owner or operator using site-specific data to derive an emission factor, or set of factors, shall meet the following requirements.
    - a. If stack test data are used, the emission factor shall be based on the average emissions per unit of input, output, or gas volume, whichever is appropriate, of all valid stack tests conducted during at least a five-year period encompassing the period over which the emissions are being computed, provided all stack tests used shall represent the same operational and physical configuration of the unit.
    - b. Multiple emission factors shall be used as necessary to account for variations in emission rate associated with variations in the emissions unit's operating rate or operating conditions during the period over which emissions are computed.
    - c. The owner or operator shall compute emissions by multiplying the appropriate emission factor by the appropriate input, output or gas volume value for the period over which the emissions are computed. The owner or operator shall not compute emissions by

### SECTION 3. EMISSIONS UNITS SPECIFIC CONDITIONS

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converting an emission factor to pounds per hour and then multiplying by hours of operation, unless the owner or operator demonstrates that such computation is the most accurate method available.

2. If site-specific data are not available to derive an emission factor, the owner or operator may use a published emission factor directly applicable to the process for which emissions are computed. If no directly-applicable emission factor is available, the owner or operator may use a factor based on a similar, but different, process.
- e. Accounting for Emissions During Periods of Missing Data from CEMS, PEMS, or CPMS. In computing the emissions of a pollutant, the owner or operator shall account for the emissions during periods of missing data from CEMS, PEMS, or CPMS using other site-specific data to generate a reasonable estimate of such emissions.
- f. Accounting for Emissions During Periods of Startup and Shutdown. In computing the emissions of a pollutant, the owner or operator shall account for the emissions during periods of startup and shutdown of the emissions unit.
- g. Fugitive Emissions. In computing the emissions of a pollutant from a facility or emissions unit, the owner or operator shall account for the fugitive emissions of the pollutant, to the extent quantifiable, associated with such facility or emissions unit.
- h. Recordkeeping. The owner or operator shall retain a copy of all records used to compute emissions pursuant to this rule for a period of five years from the date on which such emissions information is submitted to the department for any regulatory purpose.

[Rule 62-210.370

## SECTION 4. APPENDIX GC – GENERAL CONDITIONS

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The permittee shall comply with the following general conditions from Rule 62-4.160, F.A.C.

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 403.727, or 403.859 through 403.861, F.S. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in Subsections 403.087(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit is not a waiver or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.
4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at a reasonable time, access to the premises, where the permitted activity is located or conducted to:
  - a. Have access to and copy and records that must be kept under the conditions of the permit;
  - b. Inspect the facility, equipment, practices, or operations regulated or required under this permit, and,
  - c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:
  - a. A description of and cause of non-compliance; and
  - b. The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

## SECTION 4. APPENDIX GC – GENERAL CONDITIONS

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9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.73 and 403.111, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.
10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.
11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 62-4.120 and 62-730.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.
12. This permit or a copy thereof shall be kept at the work site of the permitted activity.
13. This permit also constitutes:
  - a. Determination of Best Available Control Technology (Not Applicable);
  - b. Determination of Prevention of Significant Deterioration (Not Applicable);
  - c. Compliance with New Source Performance Standards (Not Applicable).
14. The permittee shall comply with the following:
  - a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
  - b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application or this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
  - c. Records of monitoring information shall include:
    - 1) The date, exact place, and time of sampling or measurements;
    - 2) The person responsible for performing the sampling or measurements;
    - 3) The dates analyses were performed;
    - 4) The person responsible for performing the analyses;
    - 5) The analytical techniques or methods used; and
    - 6) The results of such analyses.

When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

**Harvey, Mary**

**From:** Harvey, Mary  
**Sent:** Wednesday, March 19, 2008 9:49 AM  
**To:** 'Jan C. Aspuru, OUC:'; 'Denise M. Stalls, OUC:'; Bradner, James; 'Lori Cunniff, Orange County EPD:'; 'Jim Little, EPA Region 4:'; 'Katy Forney, EPA Region 4:'; 'Scott Osbourn, P.E., Golder Associates:'; Halpin, Mike  
**Cc:** Holtom, Jonathan; Walker, Elizabeth (AIR); Gibson, Victoria  
**Subject:** FINAL CONSTRUCTION PERMIT FOR ORLANDO UTILITIES COMMISSION (OUC) - PROJECT NO. 0950137-019-AC-FINAL  
**Attachments:** 0950137.019.AC.F\_.pdf.zip

Tracking:	Recipient	Delivery
	'Jan C. Aspuru, OUC:'	
	'Denise M. Stalls, OUC:'	
	Bradner, James	Delivered: 3/19/2008 9:49 AM
	'Lori Cunniff, Orange County EPD:'	
	'Jim Little, EPA Region 4:'	
	'Katy Forney, EPA Region 4:'	
	'Scott Osbourn, P.E., Golder Associates:'	
	Halpin, Mike	Delivered: 3/19/2008 9:49 AM
	Holtom, Jonathan	Delivered: 3/19/2008 9:49 AM
	Walker, Elizabeth (AIR)	Delivered: 3/19/2008 9:49 AM
	Gibson, Victoria	Delivered: 3/19/2008 9:49 AM

Dear Sir/Madam:

Please send a "reply" message verifying receipt of the attached document(s); this may be done by selecting "Reply" on the menu bar of your e-mail software and then selecting "Send". We must receive verification of receipt and your reply will preclude subsequent e-mail transmissions to verify receipt of the document(s).

The document(s) may require immediate action within a specified time frame. Please open and review the document(s) as soon as possible.

The document is in Adobe Portable Document Format (pdf). Adobe Acrobat Reader can be downloaded for free at the following internet site:  
<http://www.adobe.com/products/acrobat/readstep.html>.

The Bureau of Air Regulation is issuing electronic documents for permits, notices and other correspondence in lieu of hard copies through the United States Postal System, to provide greater service to the applicant and the engineering community. Please advise this office of any changes to your e-mail address or that of the Engineer-of-Record.

Thank you,

DEP, Bureau of Air Regulation

3/19/2008

## Harvey, Mary

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**From:** Halpin, Mike  
**To:** Harvey, Mary  
**Sent:** Wednesday, March 19, 2008 9:50 AM  
**Subject:** Read: FINAL CONSTRUCTION PERMIT FOR ORLANDO UTILITIES COMMISSION (OUC) - PROJECT NO. 0950137-019-AC-FINAL

### Your message

**To:** 'Jan C. Aspuru, OUC:>'; 'Denise M. Stalls, OUC:>'; Bradner, James; 'Lori Cunniff, Orange County EPD:>'; 'Jim Little, EPA Region 4:>'; 'Katy Forney, EPA Region 4:>'; 'Scott Osbourn, P.E., Golder Associates:>'; Halpin, Mike  
**Cc:** Holtom, Jonathan; Walker, Elizabeth (AIR); Gibson, Victoria  
**Subject:** FINAL CONSTRUCTION PERMIT FOR ORLANDO UTILITIES COMMISSION (OUC) - PROJECT NO. 0950137-019-AC-FINAL  
**Sent:** 3/19/2008 9:49 AM

was read on 3/19/2008 9:50 AM.

## Harvey, Mary

---

**From:** Gibson, Victoria  
**To:** Harvey, Mary  
**Sent:** Wednesday, March 19, 2008 9:50 AM  
**Subject:** Read: FINAL CONSTRUCTION PERMIT FOR ORLANDO UTILITIES COMMISSION (OUC) - PROJECT NO. 0950137-019-AC-FINAL

Your message

**To:** 'Jan C. Aspuru, OUC:>'; 'Denise M. Stalls, OUC:>'; Bradner, James; 'Lori Cunniff, Orange County EPD:>'; 'Jim Little, EPA Region 4:>'; 'Katy Forney, EPA Region 4:>'; 'Scott Osbourn, P.E., Golder Associates:>'; Halpin, Mike  
**Cc:** Holtom, Jonathan; Walker, Elizabeth (AIR); Gibson, Victoria  
**Subject:** FINAL CONSTRUCTION PERMIT FOR ORLANDO UTILITIES COMMISSION (OUC) - PROJECT NO. 0950137-019-AC-FINAL  
**Sent:** 3/19/2008 9:49 AM

was read on 3/19/2008 9:50 AM.

## Harvey, Mary

---

**From:** Osbourn, Scott [Scott\_Osbourn@golder.com]  
**To:** undisclosed-recipients  
**Sent:** Wednesday, March 19, 2008 10:03 AM  
**Subject:** Read: FINAL CONSTRUCTION PERMIT FOR ORLANDO UTILITIES COMMISSION (OUC) - PROJECT NO. 0950137-019-AC-FINAL

Your message

**To:** Scott\_Osbourn@golder.com  
**Subject:**

was read on 3/19/2008 10:03 AM.



## Harvey, Mary

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**From:** Holtom, Jonathan  
**To:** Harvey, Mary  
**Sent:** Wednesday, March 19, 2008 10:02 AM  
**Subject:** Read: FINAL CONSTRUCTION PERMIT FOR ORLANDO UTILITIES COMMISSION (OUC) - PROJECT NO. 0950137-019-AC-FINAL

### Your message

**To:** 'Jan C. Aspuru, OUC:>'; 'Denise M. Stalls, OUC:>'; Bradner, James; 'Lori Cunniff, Orange County EPD:>'; 'Jim Little, EPA Region 4:>'; 'Katy Forney, EPA Region 4:>'; 'Scott Osbourn, P.E., Golder Associates:>'; Halpin, Mike  
**Cc:** Holtom, Jonathan; Walker, Elizabeth (AIR); Gibson, Victoria  
**Subject:** FINAL CONSTRUCTION PERMIT FOR ORLANDO UTILITIES COMMISSION (OUC) - PROJECT NO. 0950137-019-AC-FINAL  
**Sent:** 3/19/2008 9:49 AM

was read on 3/19/2008 10:02 AM.

**Harvey, Mary**

---

**From:** Stalls, Denise M. [DStalls@ouc.com]  
**Sent:** Wednesday, March 19, 2008 11:30 AM  
**To:** Harvey, Mary  
**Subject:** RE: FINAL CONSTRUCTION PERMIT FOR ORLANDO UTILITIES COMMISSION (OUC) - PROJECT NO. 0950137-019-AC-FINAL

**received**

---

**From:** Harvey, Mary [mailto:Mary.Harvey@dep.state.fl.us]  
**Sent:** Wednesday, March 19, 2008 9:49 AM  
**To:** Aspuru, Jan; Stalls, Denise M.; Bradner, James; Lori Cunniff, Orange County EPD;; Jim Little, EPA Region 4;; Katy Forney, EPA Region 4;; Scott Osbourn, P.E., Golder Associates;; Halpin, Mike  
**Cc:** Holtom, Jonathan; Walker, Elizabeth (AIR); Gibson, Victoria  
**Subject:** FINAL CONSTRUCTION PERMIT FOR ORLANDO UTILITIES COMMISSION (OUC) - PROJECT NO. 0950137-019-AC-FINAL

Dear Sir/Madam:

Please send a "reply" message verifying receipt of the attached document(s); this may be done by selecting "Reply" on the menu bar of your e-mail software and then selecting "Send". We must receive verification of receipt and your reply will preclude subsequent e-mail transmissions to verify receipt of the document(s).

The document(s) may require immediate action within a specified time frame. Please open and review the document(s) as soon as possible.

The document is in Adobe Portable Document Format (pdf). Adobe Acrobat Reader can be downloaded for free at the following internet site:  
<http://www.adobe.com/products/acrobat/readstep.html>.

The Bureau of Air Regulation is issuing electronic documents for permits, notices and other correspondence in lieu of hard copies through the United States Postal System, to provide greater service to the applicant and the engineering community. Please advise this office of any changes to your e-mail address or that of the Engineer-of-Record.

Thank you,

DEP, Bureau of Air Regulation

*The Department of Environmental Protection values your feedback as a customer. DEP Secretary Michael W. Sole is committed to continuously assessing and improving the level and quality of services provided to you. Please take a few minutes to comment on the quality of service you received. Simply click on [this link to the DEP Customer Survey](#). Thank you in advance for completing the survey.*

3/19/2008

**Harvey, Mary**

---

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**Sent:** Wednesday, March 19, 2008 11:30 AM  
**To:** Harvey, Mary  
**Subject:** RE: FINAL CONSTRUCTION PERMIT FOR ORLANDO UTILITIES COMMISSION (OUC) - PROJECT NO. 0950137-019-AC-FINAL

**received**

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**From:** Harvey, Mary [mailto:Mary.Harvey@dep.state.fl.us]  
**Sent:** Wednesday, March 19, 2008 9:49 AM  
**To:** Aspuru, Jan; Stalls, Denise M.; Bradner, James; Lori Cunniff, Orange County EPD;; Jim Little, EPA Region 4;; Katy Forney, EPA Region 4;; Scott Osbourn, P.E., Golder Associates;; Halpin, Mike  
**Cc:** Holtom, Jonathan; Walker, Elizabeth (AIR); Gibson, Victoria  
**Subject:** FINAL CONSTRUCTION PERMIT FOR ORLANDO UTILITIES COMMISSION (OUC) - PROJECT NO. 0950137-019-AC-FINAL

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The document(s) may require immediate action within a specified time frame. Please open and review the document(s) as soon as possible.

The document is in Adobe Portable Document Format (pdf). Adobe Acrobat Reader can be downloaded for free at the following internet site:  
<http://www.adobe.com/products/acrobat/readstep.html>.

The Bureau of Air Regulation is issuing electronic documents for permits, notices and other correspondence in lieu of hard copies through the United States Postal System, to provide greater service to the applicant and the engineering community. Please advise this office of any changes to your e-mail address or that of the Engineer-of-Record.

Thank you,

DEP, Bureau of Air Regulation

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3/19/2008

## Harvey, Mary

---

**From:** Aspuru, Jan [JAspuru@ouc.com]  
**To:** Harvey, Mary  
**Sent:** Wednesday, March 19, 2008 2:20 PM  
**Subject:** Read: FINAL CONSTRUCTION PERMIT FOR ORLANDO UTILITIES COMMISSION (OUC) - PROJECT NO. 0950137-019-AC-FINAL

Your message

To: JAspuru@ouc.com  
Subject:

was read on 3/19/2008 2:20 PM.



# Florida Department of Environmental Protection

Bob Martinez Center  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

Charlie Crist  
Governor

Jeff Kottkamp  
Lt. Governor

Michael W. Sole  
Secretary

February 15, 2008

*Electronically Sent – Received Receipt Requested.*

Mr. Jan C. Aspuru ([jaspuru@ouc.com](mailto:jaspuru@ouc.com))  
Vice President, Power Resources  
Orlando Utilities Commission  
Post Office Box 3193  
Orlando, Florida 32802

Re: DEP File No. 0950137-019-AC  
Curtis H. Stanton Energy Center Units 2  
Secondary Superheater Tube Replacement Project

Dear Mr. Aspuru:

Enclosed is one copy of the draft air construction permit authorizing the replacement of the secondary superheater tubes on Unit 2 at the Curtis H. Stanton Energy Center in Orange County. The Department's Intent to Issue Air Construction Permit, the Technical Evaluation, and the "Public Notice of Intent to Issue Air Construction Permit" are also included.

The Public Notice must be published one time only as soon as possible in a newspaper of general circulation in the area affected, pursuant to the requirements of Chapter 50, Florida Statutes. Proof of publication, such as a newspaper affidavit, must be provided to the Department's Bureau of Air Regulation office within seven days of publication. Failure to publish the notice and provide proof of publication within the allotted time may result in denial of the permit modification.

Please submit any written comments you wish to have considered concerning the Department's proposed action to Mr. Jeff Koerner, New Source Review Section Administrator, at the letterhead address. If you have any questions regarding this matter, please contact Mr. Jonathan Holtom at (850) 921-9531.

Sincerely,

Trina L. Vielhauer, Chief  
Bureau of Air Regulation

TLV/jfk/jh

Enclosures

## WRITTEN NOTICE OF INTENT TO ISSUE AIR PERMIT

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*In the Matter of an  
Application for Permit by:*

Orlando Utilities Commission  
Post Office Box 3193  
Orlando, Florida 32802

Project No. 0950137-019-AC  
Stanton Energy Center Unit 2  
Secondary Superheater Tube Replacement Project  
Orange County, Florida

*Authorized Representative:*  
Jan C. Aspuru, Vice President, Power Resources

## WRITTEN NOTICE OF INTENT TO ISSUE PSD PERMIT

**Facility Location:** The applicant, Orlando Utilities Commission (OUC), operates the Stanton Energy Center located at 5100 Alafaya Trail, Orlando, Orange County.

**Project:** On January 22, 2008, OUC submitted an application requesting authorization to replace the aging secondary superheater tubes on Unit 2.

**Permitting Authority:** Applications for air construction permits are subject to review in accordance with the provisions of Chapter 403, Florida Statutes (F.S.) and Chapters 62-4, 62-210, 62-212, 62-296 and 62-297, Florida Administrative Code (F.A.C.). The proposed project is not exempt from air permitting requirements and an air permit is required to perform the proposed work. The Bureau of Air Regulation is the Permitting Authority responsible for making a permit determination for this project. The Permitting Authority's physical address is: 111 South Magnolia Drive, Suite #4, Tallahassee, Florida. The Permitting Authority's mailing address is: 2600 Blair Stone Road, MS #5505, Tallahassee, Florida 32399-2400. The Permitting Authority's telephone number is 850/488-0114.

**Project File:** A complete project file is available for public inspection during the normal business hours of 8:00 a.m. to 5:00 p.m., Monday through Friday (except legal holidays), at address indicated above for the Permitting Authority. The complete project file includes the Draft Permit, the Technical Evaluation and Preliminary Determination, the application, and the information submitted by the applicant, exclusive of confidential records under Section 403.111, F.S. Interested persons may contact the Permitting Authority's project review engineer for additional information at the address or phone number listed above. In addition, electronic copies of these documents are available on the following web site: <http://www.dep.state.fl.us/air/eproducts/apds/default.asp>.

**Notice of Intent to Issue Permit:** The Permitting Authority gives notice of its intent to issue an air permit to the applicant for the project described above. The applicant has provided reasonable assurance that operation of the proposed equipment will not adversely impact air quality and that the project will comply with all appropriate provisions of Chapters 62-4, 62-204, 62-210, 62-212, 62-296, and 62-297, F.A.C. The Permitting Authority will issue a Final Permit in accordance with the conditions of the proposed Draft Permit unless a timely petition for an administrative hearing is filed under Sections 120.569 and 120.57, F.S. or unless public comment received in accordance with this notice results in a different decision or a significant change of terms or conditions.

**Public Notice:** Pursuant to Section 403.815, F.S. and Rules 62-110.106 and 62-210.350, F.A.C., you (the applicant) are required to publish at your own expense the enclosed Public Notice of Intent to Issue Air Permit (Public Notice). The Public Notice shall be published one time only as soon as possible in the legal advertisement section of a newspaper of general circulation in the area affected by this project. The newspaper used must meet the requirements of Sections 50.011 and 50.031, F.S. in the county where the activity is to take place. If you are uncertain that a newspaper meets these requirements, please contact the Permitting Authority at above address or phone number. Pursuant to Rule 62-110.106(5) and (9),

## WRITTEN NOTICE OF INTENT TO ISSUE AIR PERMIT

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F.A.C., the applicant shall provide proof of publication to the Permitting Authority at the above address within 7 days of publication. Failure to publish the notice and provide proof of publication may result in the denial of the permit pursuant to Rule 62-110.106(11), F.A.C.

**Comments:** The Permitting Authority will accept written comments concerning the proposed Draft Permit for a period of 14 days from the date of publication of the Public Notice. Written comments must be postmarked by the Permitting Authority by close of business (5:00 p.m.) on or before the end of this 30-day period. If written comments received result in a significant change to the Draft Permit, the Permitting Authority shall revise the Draft Permit and require, if applicable, another Public Notice. All comments filed will be made available for public inspection.

**Petitions:** A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative hearing in accordance with Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed with (received by) the Department's Agency Clerk in the Office of General Counsel of the Department of Environmental Protection, 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000. Petitions filed by the applicant or any of the parties listed below must be filed within 14 days of receipt of this Written Notice of Intent to Issue Air Permit. Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), F.S., must be filed within 14 days of publication of the attached Public Notice or within 14 days of receipt of this Written Notice of Intent to Issue Air Permit, whichever occurs first. Under Section 120.60(3), F.S., however, any person who asked the Permitting Authority for notice of agency action may file a petition within 14 days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above, at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

A petition that disputes the material facts on which the Permitting Authority's action is based must contain the following information: (a) The name and address of each agency affected and each agency's file or identification number, if known; (b) The name, address, and telephone number of the petitioner; the name, address and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination; (c) A statement of when and how each petitioner received notice of the agency action or proposed decision; (d) A statement of all disputed issues of material fact. If there are none, the petition must so state; (e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action including an explanation of how the alleged facts relate to the specific rules or statutes; and, (g) A statement of the relief sought by the petitioner, stating precisely the action the petitioner wishes the agency to take with respect to the agency's proposed action. A petition that does not dispute the material facts upon which the Permitting Authority's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301, F.A.C.

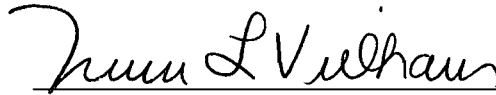
Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Permitting Authority's final action may be different from the position taken by it in this Written Notice of Intent to Issue Air Permit. Persons whose substantial interests will be affected by any such final decision of the Permitting Authority on the application have the right to petition to

**WRITTEN NOTICE OF INTENT TO ISSUE AIR PERMIT**

become a party to the proceeding, in accordance with the requirements set forth above.

**Mediation:** Mediation is not available in this proceeding.

Executed in Tallahassee, Florida.



Trina L. Vielhauer, Chief  
Bureau of Air Regulation

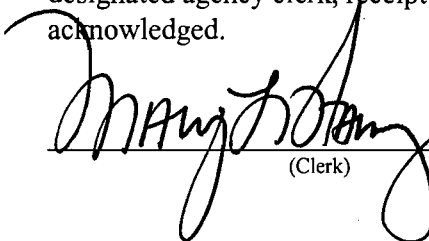
**CERTIFICATE OF SERVICE**

The undersigned duly designated deputy agency clerk hereby certifies that this Notice of Intent to Issue Air Permit package (including the Written Notice of Intent to Issue Air Permit, Public Notice of Intent to Issue Air Permit, the Technical Evaluation and Preliminary Determination, and the Draft Permit) was sent by electronic mail with received receipt requested before the close of business on 2/15/08 to the persons listed below.

- Jan C. Aspuru, OUC: [jaspuru@ouc.com](mailto:jaspuru@ouc.com)
- Denise M. Stalls, OUC: [dstalls@ouc.com](mailto:dstalls@ouc.com)
- Jim Bradner, DEP CD: [james.bradner@dep.state.fl.us](mailto:james.bradner@dep.state.fl.us)
- Lori Cunniff, Orange County EPD: [lori.cunniff@ocfl.net](mailto:lori.cunniff@ocfl.net)
- Jim Little, EPA Region 4: [little.james@epamail.epa.gov](mailto:little.james@epamail.epa.gov)
- Katy Forney, EPA Region 4: [forney.kathleen@epa.gov](mailto:forney.kathleen@epa.gov)
- Scott Osbourn, P.E., Golder Associates: [sosbourn@golder.com](mailto:sosbourn@golder.com)
- Mike Halpin, DEP Siting: [mike.halpin@dep.state.fl.us](mailto:mike.halpin@dep.state.fl.us)

Clerk Stamp

**FILING AND ACKNOWLEDGMENT FILED**, on this date, pursuant to Section 120.52(7), Florida Statutes, with the designated agency clerk, receipt of which is hereby acknowledged.



(Clerk)

2/15/08  
(Date)



## PUBLIC NOTICE OF INTENT TO ISSUE AIR PERMIT

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Florida Department of Environmental Protection  
Division of Air Resource Management, Bureau of Air Regulation  
Draft Air Construction Permit No. 0950137-019-AC  
Orlando Utilities Commission, Stanton Energy Center  
Orange County, Florida

**Applicant:** The applicant for this project is Orlando Utilities Commission. The applicant's authorized representative and mailing address is: Jan C. Aspuru, Vice President, Power Resources, Orlando Utilities Commission, Stanton Energy Center, P.O. Box 3193, Orlando, Florida 32802.

**Facility and Location:** The applicant, Orlando Utilities Commission (OUC), operates the Stanton Energy Center located at 5100 Alafaya Trail, Orlando, Orange County. The facility is an existing coal-fired power plant, which is identified by Standard Industrial Classification code No. 4911.

**Project:** On January 22, 2008, OUC submitted an application requesting authorization to replace the aging secondary superheater tubes on Unit 2.

**Permitting Authority:** Applications for air construction permits are subject to review in accordance with the provisions of Chapter 403, Florida Statutes (F.S.) and Chapters 62-4, 62-210, 62-212, 62-296 and 62-297, Florida Administrative Code (F.A.C.). The proposed project is not exempt from air permitting requirements and an air permit is required to perform the proposed work. The Bureau of Air Regulation is the Permitting Authority responsible for making a permit determination for this project. The Permitting Authority's physical address is: 111 South Magnolia Drive, Suite #4, Tallahassee, Florida. The Permitting Authority's mailing address is: 2600 Blair Stone Road, MS #5505, Tallahassee, Florida 32399-2400. The Permitting Authority's telephone number is 850/488-0114.

**Project File:** A complete project file is available for public inspection during the normal business hours of 8:00 a.m. to 5:00 p.m., Monday through Friday (except legal holidays), at address indicated above for the Permitting Authority. The complete project file includes the Draft Permit, the Technical Evaluation and Preliminary Determination, the application, and the information submitted by the applicant, exclusive of confidential records under Section 403.111, F.S. Interested persons may contact the Permitting Authority's project review engineer for additional information at the address and phone number listed above. In addition, electronic copies of these documents are available on the following web site: <http://www.dep.state.fl.us/air/eproducts/apds/default.asp>.

**Notice of Intent to Issue Air Permit:** The Permitting Authority gives notice of its intent to issue an air permit to the applicant for the project described above. The applicant has provided reasonable assurance that operation of proposed equipment will not adversely impact air quality and that the project will comply with all appropriate provisions of Chapters 62-4, 62-204, 62-210, 62-212, 62-296, and 62-297, F.A.C. The Permitting Authority will issue a Final Permit in accordance with the conditions of the proposed Draft Permit unless a timely petition for an administrative hearing is filed under Sections 120.569 and 120.57, F.S. or unless public comment received in accordance with this notice results in a different decision or a significant change of terms or conditions.

**Comments:** The Permitting Authority will accept written comments concerning the proposed Draft Permit for a period of 14 days from the date of publication of the Public Notice. Written comments must be postmarked by the Permitting Authority by close of business (5:00 p.m.) on or before the end of this 30-day period. If written comments received result in a significant change to the Draft Permit, the Permitting Authority shall revise the Draft Permit and require, if applicable, another Public Notice. All comments filed will be made available for public inspection.

**Petitions:** A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative hearing in accordance with Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed with (received by) the Department's Agency Clerk in the Office of General Counsel of the Department of Environmental Protection at 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000. Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), F.S. must be filed within 14 days of publication of this Public Notice or receipt of a

**(Public Notice to be Published in the Newspaper)**

## PUBLIC NOTICE OF INTENT TO ISSUE AIR PERMIT

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Permitting Authority for notice of agency action may file a petition within 14 days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above, at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

A petition that disputes the material facts on which the Permitting Authority's action is based must contain the following information: (a) The name and address of each agency affected and each agency's file or identification number, if known; (b) The name, address and telephone number of the petitioner; the name address and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial rights will be affected by the agency determination; (c) A statement of when and how the petitioner received notice of the agency action or proposed decision; (d) A statement of all disputed issues of material fact. If there are none, the petition must so state; (e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action including an explanation of how the alleged facts relate to the specific rules or statutes; and, (g) A statement of the relief sought by the petitioner, stating precisely the action the petitioner wishes the agency to take with respect to the agency's proposed action. A petition that does not dispute the material facts upon which the Permitting Authority's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301, F.A.C.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Permitting Authority's final action may be different from the position taken by it in this Public Notice of Intent to Issue Air Permit. Persons whose substantial interests will be affected by any such final decision of the Permitting Authority on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

**Mediation:** Mediation is not available for this proceeding.

**TECHNICAL EVALUATION  
&  
PRELIMINARY DETERMINATION**

**PROJECT**

Secondary Superheater Tube Replacement Project  
Draft Air Construction Permit No. 0950137-019-AC

**COUNTY**

Orange County

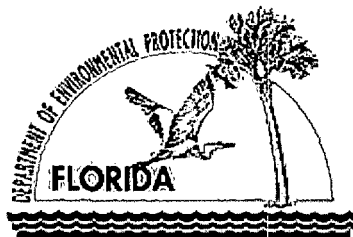
**APPLICANT**

Orlando Utilities Commission (OUC)  
Curtis H. Stanton Energy Center Unit 2

ARMS Facility ID No. 0950137

**PERMITTING  
AUTHORITY**

Florida Department of Environmental Protection  
Division of Air Resources Management  
Bureau of Air Regulation  
New Source Review Section



February 14, 2008

{Filename: OUC TEPD}

**1. GENERAL PROJECT INFORMATION**

**Applicant Name and Address**

Orlando Utilities Commission - Curtis H. Stanton Energy Center Unit 2  
P.O. Box 3193  
Orlando, Florida 32802

*Authorized Representative:*

Jan C. Aspuru, Vice President, Power Resources

**Processing Schedule**

01/22/08 Received application for a maintenance/repair project.

**Facility Description and Location**

Orlando Utilities Commission operates the existing Curtis H. Stanton Energy Center, which is located at 5100 Alafaya Trail, Orlando, Orange County, Florida. This site is in an area that is currently in attainment (or designated as unclassifiable) for all air pollutants subject to a National Ambient Air Quality Standard (NAAQS).

**Standard Industrial Classification Code (SIC)**

SIC No. 4911 – Electrical Services

**Regulatory Categories**

Title III: The existing facility is identified as a major source of hazardous air pollutants (HAP).

Title IV: The existing facility operates units subject to the acid rain provisions of the Clean Air Act.

Title V: The existing facility is a Title V major source of air pollution in accordance with Chapter 213, Florida Administrative Code (F.A.C.)

PSD: The existing facility is a major stationary source of air pollution in accordance with Rule 62-212.400, F.A.C. for the Prevention of Significant Deterioration (PSD) of Air Quality.

**Project Description**

On January 22, 2008, OUC submitted an application requesting authorization to replace the secondary superheater tubes on Unit 2 at the Stanton Energy Center because metallurgical analyses indicate advanced and irreparable erosion.

**2. APPLICABLE REGULATIONS**

**State Regulations**

This project is subject to the applicable environmental laws specified in Section 403 of the Florida Statutes (F.S.). The Florida Statutes authorize the Department of Environmental Protection to establish rules and regulations regarding air quality as part of the Florida Administrative Code (F.A.C.). In general, this project is subject to the applicable rules and regulations defined in the following Chapters of the F.A.C.:

<u>Chapter</u>	<u>Description</u>
62-4	Permitting Requirements
62-204	Ambient Air Quality Requirements and Federal Regulations Adopted by Reference
62-210	Required Permits, Public Notice, Reports, Circumvention, Excess Emissions, and Forms
62-212	Preconstruction Review

## TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

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- 62-213 Operation Permits for Major Sources of Air Pollution
- 62-296 Emission Limiting Standards
- 62-297 Testing, Continuous Monitoring, and Alternate Sampling Procedures

*{Note: The project is not subject to Florida's Power Plant Siting Act because there will be no change in steam-generated electrical capacity.}*

### General PSD Applicability

The Department regulates major air pollution sources in accordance with the Prevention of Significant Deterioration (PSD) program, as delegated by the EPA for electric utilities. A PSD review is required only in areas currently in attainment with the National Ambient Air Quality Standard (NAAQS) or areas designated as "unclassifiable" for a given pollutant. A new facility is considered "major" with respect to PSD if it emits or has the potential to emit:

- 250 tons per year or more of any regulated air pollutant, or
- 100 tons per year or more of any regulated air pollutant and the facility belongs to one of the 28 PSD Major Facility Categories, or
- 5 tons per year of lead.

For new projects at PSD-major sources, each regulated pollutant is reviewed for PSD applicability based on emissions thresholds known as the Significant Emission Rates listed in Table 62-212.400-2, F.A.C. Pollutant emissions from the project exceeding these rates are considered "significant". The applicant must employ the Best Available Control Technology (BACT) to minimize emissions of each such pollutant and evaluate the air quality impacts. Although a facility may be "major" with respect to PSD for only one regulated pollutant, it may be required to install BACT controls for several "significant" regulated pollutants.

### PSD Applicability for Project

In order to be subject to PSD review, a physical change or a change in a method of operation must result in a significant increase of a regulated pollutant. The replacement of the superheater tubes is not considered a modification because there are no expected increases of pollution emissions as a result of their replacement. Based on a comparison of projected to baseline actual emissions, this project is exempt from the requirements of PSD preconstruction review. Nevertheless, an air construction permit is required to conduct the proposed work.

### 3. APPLICATION REVIEW

Unit No. 2 consists of a coal-fueled Babcock and Wilcox boiler/steam generator (Model RB 621) and steam turbine, which drives a generator with a nameplate rating of 468 Megawatts. Fuel oil No. 6 is used for startup and flame stabilization. Biogas from a nearby landfill is also combusted. Air pollution control equipment includes an electrostatic precipitator (ESP) for particulate matter/ particulate matter 10 microns or less (PM/PM<sub>10</sub>) and a scrubber for sulfur dioxide (SO<sub>2</sub>). In addition, Unit 2 includes low nitrogen oxide (NO<sub>x</sub>) burners (LNB), over fire air (OFA) and a selective catalytic reduction (SCR) system for NO<sub>x</sub> control. Unit 2 is equipped with continuous monitors for opacity, stack gas flow, carbon dioxide (CO), NO<sub>x</sub> and SO<sub>2</sub>.

The applicant is requesting authorization to replace the corroded secondary superheater tubes in Unit 2 because metallurgical analyses indicate advanced and irreparable erosion. The new replacement tubes are characterized as functionally equivalent or a "like-kind" replacement, although the type of replacement material (SA213 TP304H) will be slightly different from the existing material and is expected to be more corrosion resistant than the existing material. The project is scheduled to begin on March 15, 2008, will

## TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

require about eight weeks to complete, and is estimated to cost about \$5 million.

This project is considered a “like-kind” non-routine maintenance activity that will not affect the emissions of any regulated air pollutants. The Department understands that the existing tubes are corroding beyond repair, which will eventually lead to a loss of steam and resultant electrical energy production capacity. A review of recent year’s activity and emissions shows the following:

Annual utilization summary:

Year of Operation	Heat Input (MMBtu/yr)	Generation (net, MW-hrs)	Hours Operated
2003	28,477,649	2,956,008	7,261
2004	30,203,431	3,062,770	7,728
2005	32,905,551	3,405,859	7,865
2006	34,820,403	3,197,451	8,218
Highest 2-yr avg. 2005-2006	33,562,977	3,301,655	8,042

Annual criteria pollutant emissions summary:

Year of Operation	NO <sub>x</sub> (TPY)	SO <sub>2</sub> (TPY)	CO (TPY)	PM (TPY)	PM <sub>10</sub> (TPY)	VOC (TPY)
2003	2,420	2,368	358.5	95.2	64.3	40.8
2004	2,564	2,501	371.1	112.8	112.8	44.9
2005	2,682	2,779	385.1	78.1	78.1	44.3
2006	2,855	2,640	399.7	100.0	100.0	47.3
Highest 2-yr avg. 2005-2006	2,769	2,710	392.4	89.1	89.1	45.8

From the information shown above, it is clear that there has not been a loss of combustion capacity leading up to this request. However, electrical generation capacity is starting to decrease, possibly due to a loss of steam resulting from leaking tubes. The applicant claims that the tube replacement will not result in an increase in utilization. Based on the information displayed above, it is reasonable to accept the applicant’s claim.

To provide additional assurance, the permittee shall submit an annual report to the Department demonstrating that the project did not result in any significant net emissions increase for a period of 5 years representative of normal post-change operations of the unit. For pollutants with continuous emissions monitoring systems (CEMS), CEMS data shall be used to determine emissions.

#### 4. PRELIMINARY DETERMINATION

The Department makes a preliminary determination that the proposed project will comply with all applicable state and federal air pollution regulations as conditioned by the draft permit. This determination is based on a technical review of the complete application, reasonable assurances provided by the applicant, and the conditions specified in the draft permit.

(DRAFT)

**PERMITTEE:**

Orlando Utilities Commission (OUC)  
P.O. Box 3193  
Orlando, Florida 32802

*Authorized Representative:*

Jan C. Aspuru, Vice President, Power Resources

Permit No. 0950137-019-AC Curtis H. Stanton Energy Center Stanton Unit 2 SIC No. 4911 Secondary Superheater Tube Replacement Project Orange County, Florida Permit Expires: March 31, 2009
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**PROJECT AND LOCATION**

This permit authorizes the replacement of the secondary superheater tubes on Unit 2 at the OUC Curtis H. Stanton Energy Center. The facility is located at 5100 Alafaya Trail, Orlando, Orange County.

**STATEMENT OF BASIS**

This air pollution construction permit is issued under the provisions of Chapter 403 of the Florida Statutes (F.S.), and Chapters 62-4, 62-204, 62-210, 62-212, 62-296, and 62-297 of the Florida Administrative Code (F.A.C.) and Title 40, Part 60 of the Code of Federal Regulations (CFR). The permittee is authorized to install the proposed equipment in accordance with the conditions of this permit and as described in the application, approved drawings, plans, and other documents on file with the Florida Department of Environmental Protection (the Department).

**CONTENTS**

- Section 1. General Information
- Section 2. Administrative Requirements
- Section 3. Emissions Units Specific Conditions
- Section 4. Appendix GC

\_\_\_\_\_  
Joseph Kahn, Director  
Division of Air Resource Management

\_\_\_\_\_  
(Date)

JK/tlv/jfk/jh

## SECTION 1. GENERAL INFORMATION (DRAFT)

### FACILITY AND PROJECT DESCRIPTION

The existing facility consists of two 468 megawatt (MW) fossil fuel fired steam electric generating units (Units 1 and 2), and one 640 MW combined cycle unit. There are storage and handling facilities for solid fuels, fly ash, limestone, gypsum, slag, and bottom ash.

As noted above, the project under this permit is for the replacement of the secondary superheater tubes on Unit 2. The tubes are being repaired and replaced because metallurgical analyses indicate advanced and irreparable erosion. The new replacement tubes are characterized as functionally equivalent or a "like-kind" replacement, although the type of replacement material (SA213 TP304H) will be slightly different from the existing material and is expected to be more corrosion resistant than the existing material. The project is scheduled to begin on March 15, 2008, will require about 8 weeks to complete, and is estimated to cost about \$5 million.

EU ID	Emissions Unit Description
002	Fossil Fuel Fired Steam Electric Generator No. 2

### REGULATORY CLASSIFICATION

The facility is a potential major source of hazardous air pollutants (HAP).

The facility operates existing units subject to the Acid Rain provisions of Title IV of the Clean Air Act (CAA).

The facility is a Title V major source of air pollution in accordance with Chapter 62-213, F.A.C.

The facility is a major Prevention of Significant Deterioration (PSD) stationary source in accordance with Rule 62-212.400, F.A.C.

The facility operates units subject to the Standards of Performance for New Stationary Sources pursuant to 40 CFR Part 60.

The facility is subject to the Federal Clean Air Interstate Rule (CAIR) in accordance with the Final Department Rules issued pursuant to CAIR as implemented by the Department in Rule 62-296.470, F.A.C.

The facility is subject to the Federal Clean Air Mercury Rule (CAMR) implemented by the Department in Rule 62-296.480, F.A.C.

The facility operates units that were certified under the Florida Power Plant Siting Act, 403.501-518, F.S.

### RELEVANT DOCUMENTS

The following relevant documents are not a part of this permit, but helped form the basis for this permitting action: the permit application and the Department's Technical Evaluation and Preliminary Determination.



## SECTION 2. ADMINISTRATIVE REQUIREMENTS (DRAFT)

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1. Permitting Authority: The Permitting Authority for this project is the Bureau of Air Regulation in the Division of Air Resource Management of the Department. The mailing address for the Bureau of Air Regulation is 2600 Blair Stone Road, MS #5505, Tallahassee, Florida 32399-2400.
2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Central District Office. The mailing address and phone number of the Central District Office are: Department of Environmental Protection, Central District Office, 3319 Maguire Boulevard, Suite 232, Orlando Florida 32803-3767. Telephone: (407) 894-7555. Fax: (407) 897-5963.
3. Appendices: The following Appendix is attached as part of this permit: Appendix GC (General Conditions).
4. Applicable Regulations, Forms and Application Procedures: Unless otherwise specified in this permit, the construction and operation of the subject emissions units shall be in accordance with the capacities and specifications stated in the application. The facility is subject to all applicable provisions of: Chapter 403, F.S.; and Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-214, 62-296, and 62-297, F.A.C. Issuance of this permit does not relieve the permittee from compliance with any applicable federal, state, or local permitting or regulations.
5. New or Additional Conditions: For good cause shown and after notice and an administrative hearing, if requested, the Department may require the permittee to conform to new or additional conditions. The Department shall allow the permittee a reasonable time to conform to the new or additional conditions, and on application of the permittee, the Department may grant additional time. [Rule 62-4.080, F.A.C.]
6. Modifications: No emissions unit shall be constructed or modified without obtaining an air construction permit from the Department. Such permit shall be obtained prior to beginning construction or modification. [Rules 62-210.300(1) and 62-212.300(1)(a), F.A.C.]
7. Title V Permit: This permit authorizes specific modifications and/or new construction on the affected emissions units as well as initial operation to determine compliance with conditions of this permit. A Title V operation permit is required for regular operation of the permitted emissions unit. The permittee shall apply for a Title V operation permit at least 90 days prior to expiration of this permit, but no later than 180 days after completing the required work and commencing operation. To apply for a Title V operation permit, the applicant shall submit the appropriate application form, compliance test results, and such additional information as the Department may by law require. The application shall be submitted to the Bureau of Air Regulation with copies to the Compliance Authority. [Rules 62-4.030, 62-4.050, 62-4.220, and Chapter 62-213, F.A.C.]

### SECTION 3. EMISSIONS UNITS SPECIFIC CONDITIONS (DRAFT)

This section of the permit addresses the following existing emissions unit.

#### Emissions Unit 002

Fossil Fuel Fired Steam Generator 2 is a wall-fired, dry bottom boiler, firing pulverized coal as the primary fuel and No. 6 fuel oil for purposes of startup and flame stabilization. The unit has a maximum heat input rate of 4,286 million British thermal units (MMBtu) per hour with a nominal generating capacity of 468 MW. The unit is equipped with an electrostatic precipitator (ESP) for control of particulate matter (PM/PM<sub>10</sub>), a wet flue gas desulfurization (WFGD) system for sulfur dioxide (SO<sub>2</sub>) control, and low NO<sub>x</sub> burners for nitrogen oxides (NO<sub>x</sub>) control. Unit 2 is also equipped with a selective catalytic reduction (SCR) system for further control of NO<sub>x</sub> emissions. The following parameters are continuously monitored: NO<sub>x</sub>, opacity, SO<sub>2</sub>, carbon dioxide (CO<sub>2</sub>), and stack gas flow rate.

#### APPLICABLE STANDARDS AND REGULATIONS

1. Applicable Requirements: Issuance of this permit does not relieve the facility owner or operator from compliance with any applicable federal, state, or local permitting requirements or regulations. The requirements of this permit are in addition to all other applicable requirements. [Rule 62-210.300, F.A.C.]

#### GENERAL OPERATION REQUIREMENTS

2. Unconfined Particulate Emissions: During the construction period, unconfined particulate matter emissions shall be minimized by dust suppressing techniques such as covering and/or application of water or chemicals to the affected areas, as necessary. [Rule 62-296.320(4), F.A.C.]
3. Source Obligation: At such time that a particular source or modification becomes a major stationary source or major modification (as these terms were defined at the time the source obtained the enforceable limitation) solely by exceeding its projected actual emissions, then the requirements of subsections 62-212.400(4) through (12), F.A.C., shall apply to the source or modification as though construction had not yet commenced on the source or modification. [Rule 62-212.400(12)(c), F.A.C.]

#### AUTHORIZED REPAIRS AND REPLACEMENT

4. Secondary Superheater Tubes: The permittee is authorized to repair/replace the secondary superheater tubes for Unit 2, as described in the application. The new replacement tubes are characterized as functionally equivalent or a "like-kind" replacement, although the type of replacement material will be slightly different from the existing material and is expected to be more corrosion resistant than the existing material. This permit only authorizes the repair/replacement of the secondary superheater tubes and does not authorize any increases in allowable heat input or allowable pollutant emissions rates.  
[Applicant Request.]

#### REPORTING AND NOTIFICATION REQUIREMENTS

5. Notification: Within one week of commencing the secondary superheater tube replacement project, the permittee shall notify the Compliance Authority that the project has commenced and provide a general schedule of construction activities. Within one week following the end of construction, the permittee shall notify the Compliance Authority that the project was completed.  
[Rule 62-4.210, F.A.C.]

**SECTION 3. EMISSIONS UNITS SPECIFIC CONDITIONS (DRAFT)**

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6. PSD Applicability Monitoring and Reporting Requirements:

- a. The permittee shall monitor the emissions of NO<sub>x</sub>, SO<sub>2</sub>, CO, PM, SAM, lead and VOC; and, using the most reliable information available, calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of 5 years from the issuance date of this permit. Emissions shall be computed in accordance with Rule 62-210.370, F.A.C.
- b. The permittee shall report to the Department within 60 days after the end of each year during which records must be generated under subparagraph 62-212.300(1)(e)1., F.A.C., setting out the unit's annual emissions during the calendar year that preceded submission of the report. The report shall contain the following:
  1. The name, address and telephone number of the owner or operator of the major stationary source;
  2. The annual emissions as calculated pursuant to subparagraph 62-212.300(1)(e)1., F.A.C.;
  3. If the emissions differ from the preconstruction projection, an explanation as to why there is a difference; and,
  4. Any other information that the owner or operator wishes to include in the report.
- c. The information required to be documented and maintained pursuant to subparagraphs 62-212.300(1)(e)1. and 2., F.A.C., shall be submitted to the Department, which shall make it available for review to the general public.  
[Rule 62-212.300(1)(e), F.A.C.]

7. Computation of Emissions: The owner or operator shall compute emissions in accordance with the requirements set forth below:

- a. Basic Approach. The owner or operator shall employ, on a pollutant-specific basis, the most accurate of the approaches set forth below to compute the emissions of a pollutant from an emissions unit; provided, however, that nothing in this rule shall be construed to require installation and operation of any continuous emissions monitoring system (CEMS), continuous parameter monitoring system (CPMS), or predictive emissions monitoring system (PEMS) not otherwise required by rule or permit, nor shall anything in this rule be construed to require performance of any stack testing not otherwise required by rule or permit.
  1. If the emissions unit is equipped with a CEMS meeting the requirements of paragraph 62-210.370(2)(b), F.A.C., the owner or operator shall use such CEMS to compute the emissions of the pollutant, unless the owner or operator demonstrates to the department that an alternative approach is more accurate because the CEMS represents still-emerging technology.
  2. If a CEMS is not available or does not meet the requirements of paragraph 62-210.370(2)(b), F.A.C., but emissions of the pollutant can be computed pursuant to the mass balance methodology of paragraph 62-210.370(2)(c), F.A.C., the owner or operator shall use such methodology, unless the owner or operator demonstrates to the department that an alternative approach is more accurate.
  3. If a CEMS is not available or does not meet the requirements of paragraph 62-210.370(2)(b), F.A.C., and emissions cannot be computed pursuant to the mass balance methodology, the owner or operator shall use an emission factor meeting the requirements of paragraph 62-210.370(2)(d), F.A.C., unless the owner or operator demonstrates to the department that an alternative approach is more accurate.
- b. Continuous Emissions Monitoring System (CEMS).
  1. An owner or operator may use a CEMS to compute emissions of a pollutant for purposes of this rule provided:
    - (a) The CEMS complies with the applicable certification and quality assurance requirements of 40 CFR Part 60, Appendices B and F, or, for an acid rain unit, the certification and

### SECTION 3. EMISSIONS UNITS SPECIFIC CONDITIONS (DRAFT)

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- quality assurance requirements of 40 CFR Part 75, all adopted by reference at Rule 62-204.800, F.A.C.; or
- (b) The owner or operator demonstrates that the CEMS otherwise represents the most accurate means of computing emissions for purposes of this rule.
2. Stack gas volumetric flow rates used with the CEMS to compute emissions shall be obtained by the most accurate of the following methods as demonstrated by the owner or operator:
    - (a) A calibrated flowmeter that records data on a continuous basis, if available; or
    - (b) The average flow rate of all valid stack tests conducted during a five-year period encompassing the period over which the emissions are being computed, provided all stack tests used shall represent the same operational and physical configuration of the unit.
  3. The owner or operator may use CEMS data in combination with an appropriate f-factor, heat input data, and any other 63 necessary parameters to compute emissions if such method is demonstrated by the owner or operator to be more accurate than using a stack gas volumetric flow rate as set forth at subparagraph 62-210.370(2)(b)2., F.A.C., above.
- c. Mass Balance Calculations.
1. An owner or operator may use mass balance calculations to compute emissions of a pollutant for purposes of this rule provided the owner or operator:
    - (a) Demonstrates a means of validating the content of the pollutant that is contained in or created by all materials or fuels used in or at the emissions unit; and
    - (b) Assumes that the emissions unit emits all of the pollutant that is contained in or created by any material or fuel used in or at the emissions unit if it cannot otherwise be accounted for in the process or in the capture and destruction of the pollutant by the unit's air pollution control equipment.
  2. Where the vendor of a raw material or fuel which is used in or at the emissions unit publishes a range of pollutant content from such material or fuel, the owner or operator shall use the highest value of the range to compute the emissions, unless the owner or operator demonstrates using site-specific data that another content within the range is more accurate.
  3. In the case of an emissions unit using coatings or solvents, the owner or operator shall document, through purchase receipts, records and sales receipts, the beginning and ending VOC inventories, the amount of VOC purchased during the computational period, and the amount of VOC disposed of in the liquid phase during such period.
- d. Emission Factors.
1. An owner or operator may use an emission factor to compute emissions of a pollutant for purposes of this rule provided the emission factor is based on site-specific data such as stack test data, where available, unless the owner or operator demonstrates to the department that an alternative emission factor is more accurate. An owner or operator using site-specific data to derive an emission factor, or set of factors, shall meet the following requirements.
    - a. If stack test data are used, the emission factor shall be based on the average emissions per unit of input, output, or gas volume, whichever is appropriate, of all valid stack tests conducted during at least a five-year period encompassing the period over which the emissions are being computed, provided all stack tests used shall represent the same operational and physical configuration of the unit.
    - b. Multiple emission factors shall be used as necessary to account for variations in emission rate associated with variations in the emissions unit's operating rate or operating conditions during the period over which emissions are computed.
    - c. The owner or operator shall compute emissions by multiplying the appropriate emission factor by the appropriate input, output or gas volume value for the period over which the emissions are computed. The owner or operator shall not compute emissions by

### SECTION 3. EMISSIONS UNITS SPECIFIC CONDITIONS (DRAFT)

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converting an emission factor to pounds per hour and then multiplying by hours of operation, unless the owner or operator demonstrates that such computation is the most accurate method available.

2. If site-specific data are not available to derive an emission factor, the owner or operator may use a published emission factor directly applicable to the process for which emissions are computed. If no directly-applicable emission factor is available, the owner or operator may use a factor based on a similar, but different, process.
- e. Accounting for Emissions During Periods of Missing Data from CEMS, PEMS, or CPMS. In computing the emissions of a pollutant, the owner or operator shall account for the emissions during periods of missing data from CEMS, PEMS, or CPMS using other site-specific data to generate a reasonable estimate of such emissions.
- f. Accounting for Emissions During Periods of Startup and Shutdown. In computing the emissions of a pollutant, the owner or operator shall account for the emissions during periods of startup and shutdown of the emissions unit.
- g. Fugitive Emissions. In computing the emissions of a pollutant from a facility or emissions unit, the owner or operator shall account for the fugitive emissions of the pollutant, to the extent quantifiable, associated with such facility or emissions unit.
- h. Recordkeeping. The owner or operator shall retain a copy of all records used to compute emissions pursuant to this rule for a period of five years from the date on which such emissions information is submitted to the department for any regulatory purpose.

## SECTION 4. APPENDIX GC – GENERAL CONDITIONS (DRAFT)

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The permittee shall comply with the following general conditions from Rule 62-4.160, F.A.C.

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 403.727, or 403.859 through 403.861, F.S. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in Subsections 403.087(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit is not a waiver or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.
4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at a reasonable time, access to the premises, where the permitted activity is located or conducted to:
  - a. Have access to and copy and records that must be kept under the conditions of the permit;
  - b. Inspect the facility, equipment, practices, or operations regulated or required under this permit, and,
  - c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:
  - a. A description of and cause of non-compliance; and
  - b. The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

#### SECTION 4. APPENDIX GC – GENERAL CONDITIONS (DRAFT)

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9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.73 and 403.111, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.
10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.
11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 62-4.120 and 62-730.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.
12. This permit or a copy thereof shall be kept at the work site of the permitted activity.
13. This permit also constitutes:
  - a. Determination of Best Available Control Technology (Not Applicable);
  - b. Determination of Prevention of Significant Deterioration (Not Applicable);
  - c. Compliance with New Source Performance Standards (Not Applicable).
14. The permittee shall comply with the following:
  - a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
  - b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application or this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
  - c. Records of monitoring information shall include:
    - 1) The date, exact place, and time of sampling or measurements;
    - 2) The person responsible for performing the sampling or measurements;
    - 3) The dates analyses were performed;
    - 4) The person responsible for performing the analyses;
    - 5) The analytical techniques or methods used; and
    - 6) The results of such analyses.

When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

PROFESSIONAL ENGINEER CERTIFICATION STATEMENT

PERMITTEE

Orlando Utilities Commission  
Post Office Box 3193  
Orlando, Florida 32802

Draft Air Permit No. 0950137-019-AC  
Stanton Energy Center Unit 2  
Secondary Superheater Tube Replacement Project  
Orange County, Florida

PROJECT DESCRIPTION

**Project:** On January 22, 2008, OUC submitted an application requesting authorization to replace the aging secondary superheater tubes on Unit 2. The tubes are being repaired and replaced because metallurgical analyses indicate advanced and irreparable erosion. The new replacement tubes are characterized as functionally equivalent or a "like-kind" replacement, although the type of replacement material (SA213 TP304H) will be slightly different from the existing material and is expected to be more corrosion resistant than the existing material. The project is scheduled to begin on March 15, 2008, will require about 8 weeks to complete, and is estimated to cost about \$5 million.

The existing facility consists of two 468 megawatt (MW) fossil fuel fired steam electric generating units (Units 1 and 2), and one 640 MW combined cycle unit. There are storage and handling facilities for solid fuels, fly ash, limestone, gypsum, slag, and bottom ash.

*I HEREBY CERTIFY that the air pollution control engineering features described in the above referenced application and subject to the proposed permit conditions provide reasonable assurance of compliance with applicable provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Chapters 62-4 and 62-204 through 62-297. However, I have not evaluated and I do not certify aspects of the proposal outside of my area of expertise (including, but not limited to, the electrical, mechanical, structural, hydrological, geological, and meteorological features).*

A circular professional engineer seal for Jonathan Holtom, P.E. The seal contains the text "FLORIDA PROFESSIONAL ENGINEERS" around the perimeter and "JONATHAN HOLTOM, P.E." in the center. Below the seal is a handwritten signature of Jonathan Holtom.

Jonathan Holtom, P.E.  
Registration Number: 52664

2/14/08  
(Date)



Florida Department of  
Environmental Protection

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Memorandum

TO: Trina Vielhauer  
THRU: Jeff Koerner *JK*  
FROM: Jonathan Holtom *JH*  
DATE: February 14, 2008  
SUBJECT: Orlando Utilities Commission (OUC) – Stanton Energy Center  
Unit 2 Secondary Superheater Replacement Project  
DEP File No. 0950137-019-AC

Attached is the Intent to Issue package for the replacement of the secondary superheater tubes on OUC Stanton Unit 2.

The existing tubes are corroding beyond repair and need to be replaced in order to avoid loss of steam and electrical production capacity. No pollutant increases are expected as a result of this non-routine maintenance activity, but PSD non-applicability reports will be required for the next five years.

I recommend your approval of the attached Intent to Issue.

Attachments

**Harvey, Mary**

**From:** Harvey, Mary  
**Sent:** Friday, February 15, 2008 11:24 AM  
**To:** 'Jan C. Aspuru, OUC:'; 'Denise M. Stalls, OUC:'; Bradner, James; 'Lori Cunniff, Orange County EPD:'; 'Jim Little, EPA Region 4:'; 'Katy Forney, EPA Region 4:'; 'Scott Osbourn, P.E., Golder Associates:'; Halpin, Mike  
**Cc:** Holtom, Jonathan; Walker, Elizabeth (AIR); Gibson, Victoria  
**Subject:** DEP FILE No. 0950137-019-AC-DRAFT - Orlando Utilities Commission (OUC)  
**Attachments:** 0950137.019.AC.D\_.pdf.zip

Tracking:	Recipient	Delivery	Read
✓	'Jan C. Aspuru, OUC:'		
✓	'Denise M. Stalls, OUC:'		
✓	Bradner, James	Delivered: 2/15/2008 11:24 AM	Read: 2/15/2008 12:57 PM
✓	'Lori Cunniff, Orange County EPD:'		
✓	'Jim Little, EPA Region 4:'		
✓	'Katy Forney, EPA Region 4:'		
✓	'Scott Osbourn, P.E., Golder Associates:'		
✓	Halpin, Mike	Delivered: 2/15/2008 11:24 AM	Read: 2/15/2008 11:31 AM
✓	Holtom, Jonathan	Delivered: 2/15/2008 11:24 AM	Read: 2/15/2008 11:26 AM
✓	Walker, Elizabeth (AIR)	Delivered: 2/15/2008 11:24 AM	
✓	Gibson, Victoria	Delivered: 2/15/2008 11:24 AM	Read: 2/15/2008 11:25 AM

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<http://www.adobe.com/products/acrobat/readstep.html>.

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Thank you,

DEP, Bureau of Air Regulation

2/20/2008

**Harvey, Mary**

**From:** Stalls, Denise M. [DStalls@ouc.com]  
**Sent:** Friday, February 15, 2008 11:33 AM  
**To:** Harvey, Mary  
**Subject:** RE: DEP FILE No. 0950137-019-AC-DRAFT - Orlando Utilities Commission (OUC)

**received**

**From:** Harvey, Mary [mailto:Mary.Harvey@dep.state.fl.us]  
**Sent:** Friday, February 15, 2008 11:24 AM  
**To:** Aspuru, Jan; Stalls, Denise M.; Bradner, James; Lori Cunniff, Orange County EPD;; Jim Little, EPA Region 4;; Katy Forney, EPA Region 4;; Scott Osbourn, P.E., Golder Associates;; Halpin, Mike  
**Cc:** Holtom, Jonathan; Walker, Elizabeth (AIR); Gibson, Victoria  
**Subject:** DEP FILE No. 0950137-019-AC-DRAFT - Orlando Utilities Commission (OUC)

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<http://www.adobe.com/products/acrobat/readstep.html>.

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Thank you,

DEP, Bureau of Air Regulation

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2/20/2008

## Harvey, Mary

---

**From:** Osbourn, Scott [Scott\_Osbourn@golder.com]  
**To:** undisclosed-recipients  
**Sent:** Friday, February 15, 2008 12:08 PM  
**Subject:** Read: DEP FILE No. 0950137-019-AC-DRAFT - Orlando Utilities Commission (OUC)

Your message

To: Scott\_Osbourn@golder.com  
Subject:

was read on 2/15/2008 12:08 PM.

## Harvey, Mary

---

**From:** Bradner, James  
**To:** Harvey, Mary  
**Sent:** Friday, February 15, 2008 12:58 PM  
**Subject:** Read: DEP FILE No. 0950137-019-AC-DRAFT - Orlando Utilities Commission (OUC)

Your message

**To:** 'Jan C. Aspuru, OUC:>'; 'Denise M. Stalls, OUC:>'; Bradner, James; 'Lori Cunniff, Orange County EPD:>'; 'Jim Little, EPA Region 4:>'; 'Katy Forney, EPA Region 4:>'; 'Scott Osbourn, P.E., Golder Associates:>'; Halpin, Mike  
**Cc:** Holtom, Jonathan; Walker, Elizabeth (AIR); Gibson, Victoria  
**Subject:** DEP FILE No. 0950137-019-AC-DRAFT - Orlando Utilities Commission (OUC)  
**Sent:** 2/15/2008 11:24 AM

was read on 2/15/2008 12:57 PM.

## Harvey, Mary

---

**From:** Forney.Kathleen@epamail.epa.gov  
**Sent:** Tuesday, February 19, 2008 9:29 AM  
**To:** Harvey, Mary  
**Subject:** Re: FW: DEP FILE No. 0950137-019-AC-DRAFT - Orlando Utilities Commission (OUC)

thanks

---

Katy R. Forney  
Air Permits Section  
EPA - Region 4  
61 Forsyth St., SW  
Atlanta, GA 30303

Phone: 404-562-9130  
Fax: 404-562-9019

"Harvey, Mary"  
<Mary.Harvey@dep  
.state.fl.us>

02/15/2008 11:25  
AM

To  
Kathleen Forney/R4/USEPA/US@EPA  
cc  
Subject  
FW: DEP FILE No.  
0950137-019-AC-DRAFT - Orlando  
Utilities Commission (OUC)

The Department of Environmental Protection values your feedback as a customer. DEP Secretary Michael W. Sole is committed to continuously assessing and improving the level and quality of services provided to you. Please take a few minutes to comment on the quality of service you received. Simply click on this link to the DEP Customer Survey. Thank you in advance for completing the survey.

**From:** Harvey, Mary  
**Sent:** Friday, February 15, 2008 11:24 AM  
**To:** 'Jan C. Aspuru, OUC: '; 'Denise M. Stalls, OUC: '; Bradner, James; 'Lori Cunniff, Orange County EPD: '; 'Jim Little, EPA Region 4: '; 'Katy Forney, EPA Region 4: '; 'Scott Osbourn, P.E., Golder Associates: '; Halpin, Mike  
**Cc:** Holtom, Jonathan; Walker, Elizabeth (AIR); Gibson, Victoria  
**Subject:** DEP FILE No. 0950137-019-AC-DRAFT - Orlando Utilities Commission (OUC)

Dear Sir/Madam:

## Harvey, Mary

---

**From:** Halpin, Mike  
**To:** Harvey, Mary  
**Sent:** Friday, February 15, 2008 11:31 AM  
**Subject:** Read: DEP FILE No. 0950137-019-AC-DRAFT - Orlando Utilities Commission (OUC)

### Your message

**To:** 'Jan C. Aspuru, OUC:>'; 'Denise M. Stalls, OUC:>'; Bradner, James; 'Lori Cunniff, Orange County EPD:>'; 'Jim Little, EPA Region 4:>'; 'Katy Forney, EPA Region 4:>'; 'Scott Osbourn, P.E., Golder Associates:>'; Halpin, Mike  
**Cc:** Holtom, Jonathan; Walker, Elizabeth (AIR); Gibson, Victoria  
**Subject:** DEP FILE No. 0950137-019-AC-DRAFT - Orlando Utilities Commission (OUC)  
**Sent:** 2/15/2008 11:24 AM

was read on 2/15/2008 11:31 AM.

## Harvey, Mary

---

**From:** Holtom, Jonathan  
**To:** Harvey, Mary  
**Sent:** Friday, February 15, 2008 11:26 AM  
**Subject:** Read: DEP FILE No. 0950137-019-AC-DRAFT - Orlando Utilities Commission (OUC)

Your message

**To:** 'Jan C. Aspuru, OUC:>'; 'Denise M. Stalls, OUC:>'; Bradner, James; 'Lori Cunniff, Orange County EPD:>'; 'Jim Little, EPA Region 4:';  
'Katy Forney, EPA Region 4:>'; 'Scott Osbourn, P.E., Golder Associates:>'; Halpin, Mike  
**Cc:** Holtom, Jonathan; Walker, Elizabeth (AIR); Gibson, Victoria  
**Subject:** DEP FILE No. 0950137-019-AC-DRAFT - Orlando Utilities Commission (OUC)  
**Sent:** 2/15/2008 11:24 AM

was read on 2/15/2008 11:26 AM.



## Harvey, Mary

---

**From:** Aspuru, Jan [JAspuru@ouc.com]  
**To:** undisclosed-recipients  
**Sent:** Friday, February 15, 2008 5:33 PM  
**Subject:** Read: DEP FILE No. 0950137-019-AC-DRAFT - Orlando Utilities Commission (OUC)

Your message

To: JAspuru@ouc.com  
Subject:

was read on 2/15/2008 5:33 PM.

## Harvey, Mary

---

**From:** Gibson, Victoria  
**To:** Harvey, Mary  
**Sent:** Friday, February 15, 2008 11:25 AM  
**Subject:** Read: DEP FILE No. 0950137-019-AC-DRAFT - Orlando Utilities Commission (OUC)

Your message

**To:** 'Jan C. Aspuru, OUC:'; 'Denise M. Stalls, OUC:'; Bradner, James; 'Lori Cunniff, Orange County EPD:'; 'Jim Little, EPA Region 4:'; 'Katy Fomey, EPA Region 4:'; 'Scott Osbourn, P.E., Golder Associates:'; Halpin, Mike  
**Cc:** Holtom, Jonathan; Walker, Elizabeth (AIR); Gibson, Victoria  
**Subject:** DEP FILE No. 0950137-019-AC-DRAFT - Orlando Utilities Commission (OUC)  
**Sent:** 2/15/2008 11:24 AM

was read on 2/15/2008 11:25 AM.

**Harvey, Mary**

**From:** Lori.Cunniff@ocfl.net  
**Sent:** Friday, February 15, 2008 5:09 PM  
**To:** Harvey, Mary  
**Subject:** RE: DEP FILE No. 0950137-019-AC-DRAFT - Orlando Utilities Commission (OUC)

Rec'd

Lori Cunniff, Manager  
 Orange County Environmental Protection Division  
 800 Mercy Drive  
 Orlando, FL 32808  
 407-836-1405

 Please consider the environment before printing this e-mail.

*PLEASE NOTE: Florida has a very broad public records law (F. S. 119). All e-mails to and from County Officials are kept as a public record. Your e-mail communications, including your e-mail address may be disclosed to the public and media at any time.*

**From:** Harvey, Mary [mailto:Mary.Harvey@dep.state.fl.us]  
**Sent:** Friday, February 15, 2008 11:24 AM  
**To:** Jan C. Aspuru, OUC;; Denise M. Stalls, OUC;; Bradner, James; Cunniff, Lori; Jim Little, EPA Region 4;; Katy Forney, EPA Region 4;; Scott Osbourn, P.E., Golder Associates;; Halpin, Mike  
**Cc:** Holtom, Jonathan; Walker, Elizabeth (AIR); Gibson, Victoria  
**Subject:** DEP FILE No. 0950137-019-AC-DRAFT - Orlando Utilities Commission (OUC)

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2/18/2008

## Harvey, Mary

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**From:** Lori.Cunniff@ocfl.net  
**To:** undisclosed-recipients  
**Sent:** Friday, February 15, 2008 5:07 PM  
**Subject:** Read: DEP FILE No. 0950137-019-AC-DRAFT - Orlando Utilities Commission (OUC)

Your message

**To:** Lori.Cunniff@ocfl.net  
**Subject:**

was read on 2/15/2008 5:07 PM.

3/13/08

RECEIVED

MAR 14 2008

Jeff,

BUREAU OF AIR REGULATION

Good morning.

Attached is the Public Notice for the Orlando Utilities Commission, Stanton Energy Center Draft Air Construction Permit No. 0950137-019-AC.

It pertains to the replacement of Unit 2 Secondary Superheater tubes.

Please note that, although the notice is just now being submitted to the Agency, it ran in the February 21, 2008 edition of the Orlando Sentinel. The newspaper mailed the original documents to an incorrect address, and we were unable to secure their replacement until yesterday.

Thank you for your consideration, Jeff.

Louis Brown *LBrown*

Orlando Utilities Commission  
407-658-6444 Ext. 3435  
E-mail: [lbrown@ouc.com](mailto:lbrown@ouc.com)

# Orlando Sentinel

Published Daily

State of Florida } s.s.  
 COUNTY OF ORANGE }

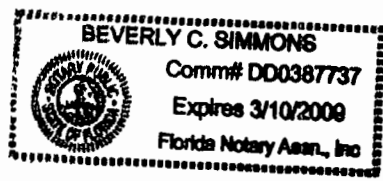
Before the undersigned authority personally appeared Rachael Washington, who on oath says that he/she is the Legal Advertising Representative of Orlando Sentinel, a daily newspaper published at Orlando in Orange County, Florida; that the attached copy of advertisement, being a Public Notice in the matter of AIR PERMIT In the Orange Court, was published in said newspaper in the issue; of 02/21/08

Affiant further says that the said Orlando Sentinel is a newspaper published at Orlando, in said Orange County, Florida, and that the said newspaper has heretofore been continuously published in said Orange County, Florida, each Week Day and has been entered as second-class mail matter at the post office in Orlando in said Orange County, Florida, for a period of one year next preceding the first publication of the attached copy of advertisement; and affiant further says that he/she has neither paid nor promised any person, firm or corporation any discount, rebate, commission or refund for the purpose of securing this advertisement for publication in the said newspaper.

The foregoing instrument was acknowledge before me this 12th day of March, 2008, by Rachael Washington, who is personally known to me and who did take an oath

*[Signature]*  
*[Signature]*

(SEAL)



Order# 640325

**PUBLIC NOTICE OF INTENT TO ISSUE AIR PERMIT**

Florida Department of Environmental Protection Division of Air Resource Management, Bureau of Air Regulation Draft Air Construction Permit No. 095037-019-AC Orlando Utilities Commission, Stanton Energy Center Orange County, Florida

**Applicant:** The applicant for this project is Orlando Utilities Commission. The applicant's authorized representative and mailing address is: Jan C. Aspuru, Vice President, Power Resources, Orlando Utilities Commission, Stanton Energy Center, P.O. Box 3193, Orlando, Florida 32802.

**Facility and Location:** The applicant, Orlando Utilities Commission (OUC), operates the Stanton Energy Center located at 5100 Alcajaya Trail, Orlando, Orange County. The facility is an existing coal-fired power plant, which is identified by Standard Industrial Classification code No. 4911.

**Project:** On January 22, 2008, OUC submitted an application requesting authorization to replace the aging secondary superheater tubes on Unit 2.

**Permitting Authority:** Applications for air construction permits are subject to review in accordance with the provisions of Chapter 403, Florida Statutes (F.S.) and Chapters 62-4, 62-210, 62-212, 62-296 and 62-297, Florida Administrative Code (F.A.C.). The proposed project is not exempt from air permitting requirements and an air permit is required to perform the proposed work. The Bureau of Air Regulation is the Permitting Authority responsible for making a permit determination for this project. The Permitting Authority's physical address is: 111 South Magnolia Drive, Suite #4, Tallahassee, Florida. The Permitting Authority's mailing address is: 2600 Blair Stone Road, MS #5505, Tallahassee, Florida 32399-2400. The Permitting Authority's telephone number is 850/488-0114.

**Project File:** A complete project file is available for public inspection during the normal business hours of 8:00 a.m. to 5:00 p.m., Monday through Friday (except legal holidays), at address indicated above for the Permitting Authority. The complete project file includes the Draft Permit, the Technical Evaluation and Preliminary Determination, the application, and the information submitted by the applicant, exclusive of confidential records under Section 403.111 F.S. Interested persons may contact the Permitting Authority's project review engineer for additional information at the address and phone number listed above. In addition, electronic copies of these documents are available on the following web site: <http://www.dep.state.fl.us/air/eproducts/apds/default.asp>.

**Notice of Intent to Issue Air Permit:** The Permitting Authority gives notice of its intent to issue an air permit to the applicant for the project described above. The applicant has provided reasonable assurance that operation of proposed equipment will not adversely impact air quality and that the project will comply with all appropriate provisions of Chapters 62-4, 62-204, 62-210, 62-212, 62-296, and 62-297, F.A.C. The Permitting Authority will issue a Final Permit in accordance with the conditions of the proposed Draft Permit unless a timely petition for an administrative hearing is filed under Sections 120.569 and 120.57, F.S. or unless public comment received in accordance with this notice results in a different decision or a significant change of terms or conditions.

**Comments:** The Permitting Authority will accept written

comments concerning the proposed Draft Permit for a period of 14 days from the date of publication of the Public Notice. Written comments must be post-marked by the Permitting Authority by close of business (5:00 p.m.) on or before the end of this 30-day period. If written comments

received result in a significant change to the Draft Permit, the Permitting Authority shall revise the Draft Permit and require, if applicable, another Public Notice. All comments filed will be made available for public inspection. Petitions: A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative hearing in accordance with Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed with (received by) the Department's Agency Clerk in the Office of General Counsel of the Department of Environmental Protection at 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000. Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), F.S., must be filed within 14 days of publication of this Public Notice or receipt of a written notice, whichever occurs first. Under Section 120.60(3), F.S., however, any person who asked the Permitting Authority for notice of agency action may file a petition within 14 days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above, at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C. A petition that disputes the material facts on which the Permitting Authority's action is based must contain the following information: (a) The name and address of each agency affected and each agency's file or identification number, if known; (b) The name, address and telephone number of the petitioner; the name address and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial rights will be affected by the agency determination; (c) A statement of when and how the petitioner received notice of the agency action or proposed decision; (d) A statement of all disputed issues of material fact. If there are none, the petition must so state; (e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action including an explanation of how the alleged facts relate to the specific rules or statutes; and, (g) A statement of the relief sought by the petitioner, stating precisely the action the petitioner wishes the agency to take with respect to the agency's proposed action. A petition that does not dispute the material facts upon which the Permitting Authority's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301, F.A.C. Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Permitting Authority's final action may be different from the position taken by it in this Public Notice of Intent to Issue Air Permit. Persons whose substantial interests will be affected by any such final decision of the Permitting Authority on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Mediation: Mediation is not available for this proceeding.

Orlando Utilities Commission  
500 South Orange Avenue  
P.O. Box 3193  
Orlando, Florida 32802  
Phone: 407.423.9100  
Administrative Fax: 407.236.9616  
Purchasing Fax: 407.384.4141  
Website: www.ouc.com



The *Reliable One*®

January 18, 2008

DARM/BAR  
Florida Department of Environmental Protection  
2600 Blair Stone Rd.  
Tallahassee, Florida 32399-2400

Attention: Mr. Russell Wider, Program Administrator, Title V Section

**RE: OUC STANTON ENERGY CENTER, UNIT 2  
PLANNED OUTAGE- SUPERHEATER TUBE REPLACEMENT**

Dear Mr. Wider:

This letter serves to transmit additional information with respect to the upcoming outage scheduled for Stanton Unit 2 and the necessity of obtaining a construction permit for certain planned activities. Specifically, the outage is scheduled to begin in March 15, 2008 and the activity of interest is the repair and replacement of damaged tubing in the unit's secondary superheater.

Stanton Unit 2 is a nominal 468 MW steam generator with a nominal heat input of 4,286 MMBtu/hr, which began commercial operation on March 29, 1996. This unit is fired primarily on bituminous coal. The unit is also equipped to fire No. 6 fuel oil, pipeline quality natural gas, on-spec used oil and landfill gas. Unit 2 is categorized as a dry bottom wall-fired unit consisting of a Babcock and Wilcox boiler/steam generator, Model RB 621. Best Available Control Technology (BACT) has been applied for all pollutants. Particulate emissions are controlled by a dry electrostatic precipitator, SO<sub>2</sub> emissions are controlled by a flue gas desulfurization system, and NO<sub>x</sub> emissions are controlled by a selective catalytic reduction system. Additional pollution control upgrades have been proposed and are summarized in Attachment 4 of this application package.

A superheater tube changeout is planned for the upcoming March 15, 2008 outage. Tubes will be repaired and replaced because metallurgical analyses indicate advanced and irreparable erosion. The new replacement tubes are characterized as functionally equivalent or a "like-kind" replacement, although the type of replacement material (SA213 TP304H) will be slightly different from the existing material. Further, it is not anticipated that this will be a recurring activity, due to the higher corrosion resistance of the replacement material. The project cost is estimated at \$5 million and will require about 8 weeks to complete. The existing secondary superheat outlet tube bank will be removed from the unit and a new replacement bank will be installed.

The first issue is whether the project is exempt in accordance with the Department's definition of a modification under existing rules (Florida Section 62-210, F.A.C.). The project is arguably a physical change and thus is eligible for consideration as a modification. However, it should be considered whether the project is exempt from the definition of modification as provided in Section 62-210.200(169)(a), F.A.C. This provision states:



*A physical change or change in method of operation shall not include: Routine maintenance, repair, or replacement of component parts of an emission unit. (Emphasis added.)*

This exemption is dependent on the definition of "routine". Two recent court cases, of some relevance to these planned activities, have resulted in differing interpretations with respect to the meaning of routine. The *Ohio Edison* ruling (August 7, 2003) maintained that the meaning of "routine" was with respect to activities for a particular emission unit. The *Duke Power* ruling (August 26, 2003) was that "routine" was relative to an entire source category (i.e., is the activity routine in the industry). Superheater repairs and replacements are typically required during the life of an electric utility steam generating unit (EUSGU) and such repairs and replacements are routine within the industry.

Notwithstanding whether the proposed activity is routine repair and replacement, a modification can only occur if it would result in an increase in actual emissions for the facility. In making a comparison of whether an increase in actual emissions has occurred, the utilization before and after the change is the most important indicator, especially if the change did not by itself affect the emission rate of the unit. While the superheater tube repair and replacement could affect long-term utilization and, possibly the short-term heat input of a unit, it could not affect the emission rate in terms of pounds per million Btu (lb/MMBtu) of heat input. The following paragraphs provide additional information with respect to both short-term impacts (i.e., affect on heat input rate) and long-term impacts (i.e., annual utilization).

Short-term impacts can be assessed in terms of the unit's fuel flow or heat input, expressed as million Btu per hour (MMBtu/hr). This parameter, combined with pollutant emission rates in lb/MMBtu, yields a pollutant mass emission rate of pounds per hour (lb/hr). This analysis is based on the assumption that, as long as the short-term heat input is not affected by the proposed activity, then short-term pollutant emission rates are similarly unaffected. This is because comparison of actual emissions are confounded by several factors, including the availability of continuous emission monitoring data, data reporting procedures, fuel quality and sampling variability. Taken together, comparisons of emissions would have to account for a variety of factors in order to draw conclusions with regard to whether or not emissions have increased as a result of a physical or operational change. The short-term measure of heat input rate (MMBtu/hr) is currently provided as a nominal rating in the Unit 2 permit to 4,286 MMBtu/hr. While Acid Rain monitoring data are not used for compliance with the permitted heat input rating, as it tends to over-estimate heat input, this data provides a good indicator of unit capacity. Historical data was obtained for the most recently available operating quarter (3rd Quarter, 2007), plotted and compared to the unit's maximum rated capacity (Permit Application, Attachment 2). It is clear that unit operation has not degraded with respect to maximum achievable capacity and that activities planned for the upcoming outage are not for the purpose of restoring or otherwise impacting the short-term heat input rate.

Long-term impacts, or annual utilization, can be measured in several ways. Stanton Unit 2 is characterized as a base load unit, which means that it is designed to be operated at a high capacity factor. Operation is based on system wide electricity demand, which can vary annually due to weather conditions and the availability of other units. This would be evidenced by utilization of the unit for the most recent period (2003 through 2006, the year 2007 is not yet available). To evaluate whether an increase in utilization is anticipated to occur as a result of the planned outage activity, the

highest 2-year average of historical use (2005-2006) will be compared to the period following the outage, in this case, the year 2008.

A comparison of average utilization rates before and after the planned outage shows that no increase is projected to occur. The utilization comparison was made for three parameters that are considered representative of annual operating measurements: 1) heat input in million Btu per year (MMBtu/yr), 2) net generation in MW-hours (net, MW-hrs), and 3) hours of operation per year. These data are summarized below in tabular form.

<b>Year of Operation</b>	<b>Heat Input (MMBtu/yr)</b>	<b>Generation (net, MW-hrs)</b>	<b>Hours Operated</b>
2003	28,477,649	2,956,008	7,261
2004	30,203,431	3,062,770	7,728
2005	32,905,551	3,405,859	7,865
2006	34,820,403	3,197,451??	8,218
<i>Highest 2-yr Average 2005-2006</i>	33,862,977	3,301,655	8,042

As stated, Unit 2 is a base load unit and already highly utilized. Any anticipated increase in future utilization, though currently not predicted, would be due to system-wide demand growth and unrelated to the repair and replacement activities planned for the upcoming outage. The comparisons of short-term (heat input rate) and long-term impacts (annual utilization) both before and after the proposed outage activities provide reasonable assurance that no change in the method of operation or in emission impacts is anticipated to occur as a result of the planned outage activities.

OUC believes, based on the above project summary, that no construction permit is necessary for the planned outage activity. However, due to current regulatory uncertainty with respect to proper treatment of equipment repair and replacement projects, as well as discussions with the Department, this letter serves to transmit an application for a construction permit for the described activities. The application includes the following four attachments: 1) **Attachment 1**- summary tables of annual utilization and annual emissions, 2) **Attachment 2**- graphical depiction of hourly heat input, 3) **Attachment 3**- the scope of work for the activities to be performed, and 4) **Attachment 4**- summary of other recent proposed air construction permit activities for Unit 2.

OUC appreciates your consideration of the above and requests your timely processing of the subject permit. If you should have any questions, please do not hesitate to contact either Scott Osbourn at (813) 287-1717 or me at (407) 737-4236.

Mr. Wider  
January 18, 2008  
Page 4

Sincerely,

*Louis M. Brown*

for |

Denise M. Stalls  
Director, Environmental Division

Attachments

Cc: Scott Osbourn, P.E., Golder Associates Inc.  
James Bradner, P.E., DEP Central District



# Department of Environmental Protection

## Division of Air Resource Management

### APPLICATION FOR AIR PERMIT - LONG FORM

#### I. APPLICATION INFORMATION

**Air Construction Permit** – Use this form to apply for an air construction permit for a proposed project:

- subject to prevention of significant deterioration (PSD) review, nonattainment area (NAA) new source review, or maximum achievable control technology (MACT) review; or
- where the applicant proposes to assume a restriction on the potential emissions of one or more pollutants to escape a federal program requirement such as PSD review, NAA new source review, Title V, or MACT; or
- at an existing federally enforceable state air operation permit (FESOP) or Title V permitted facility.

**Air Operation Permit** – Use this form to apply for:

- an initial federally enforceable state air operation permit (FESOP); or
- an initial/revised/renewal Title V air operation permit.

**Air Construction Permit & Revised/Renewal Title V Air Operation Permit (Concurrent Processing Option)** – Use this form to apply for both an air construction permit and a revised or renewal Title V air operation permit incorporating the proposed project.

To ensure accuracy, please see form instructions.

#### Identification of Facility

1. Facility Owner/Company Name: Orlando Utilities Commission	
2. Site Name: Stanton Energy Center	
3. Facility Identification Number: 0950137	
4. Facility Location. Street Address or Other Locator: 5100 Alafaya Trail City: Orlando County: Orange Zip Code: 32831	
5. Relocatable Facility? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6. Existing Title V Permitted Facility? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

#### Application Contact

1. Application Contact Name: Denise Stalls		
2. Application Contact Mailing Address. Organization/Firm: Orlando Utilities Commission Street Address: P.O. Box 3193 City: Orlando State: FL Zip Code: 32802		
3. Application Contact Telephone Numbers... Telephone: (407) 737 - 4236 ext. Fax: (407) 384 - 4020		
4. Application Contact Email Address: <a href="mailto:dstalls@ouc.com">dstalls@ouc.com</a>		

#### Application Processing Information (DEP Use)

1. Date of Receipt of Application: 1/22/08	
2. Project Number(s): 0950137-019-AL	
3. PSD Number (if applicable):	
4. Siting Number (if applicable):	



# Department of Environmental Protection

## Division of Air Resource Management

### APPLICATION FOR AIR PERMIT - LONG FORM

#### Purpose of Application

This application for air permit is submitted to obtain: (Check one)

#### **Air Construction Permit**

Air construction permit.

#### **Air Operation Permit**

Initial Title V air operation permit.

Title V air operation permit revision.

Title V air operation permit renewal.

Initial federally enforceable state air operation permit (FESOP) where professional engineer (PE) certification is required.

Initial federally enforceable state air operation permit (FESOP) where professional engineer (PE) certification is not required.

#### **Air Construction Permit and Revised/Renewal Title V Air Operation Permit (Concurrent Processing)**

Air construction permit and Title V permit-revision, incorporating the proposed project.

Air construction permit and Title V permit renewal, incorporating the proposed project.

**Note: By checking one of the above two boxes, you, the applicant, are requesting concurrent processing pursuant to Rule 62-213.405, F.A.C. In such case, you must also check the following box:**

I hereby request that the department waive the processing time requirements of the air construction permit to accommodate the processing time frames of the Title V air operation permit.

### ***Application Comment***

This application serves to transmit additional information with respect to the upcoming outage scheduled for Stanton Unit 2 to repair and replace damaged tubing in the unit's secondary superheater. Stanton Unit 2 is a nominal 468 MW steam generator with a nominal heat input of 4,286 MMBtu/hr. This unit began commercial operation on March 29, 1996.

A superheater tube changeout is planned for the upcoming March 15, 2008 outage. Tubes will be repaired and replaced because metallurgical analyses indicate advanced and irreparable erosion. The new replacement tubes are characterized as functionally equivalent or a "like-kind" replacement, although the type of replacement material (SA213 TP304H) will be slightly different from the existing material. Further, it is not anticipated that this will be a recurring activity, due to the higher corrosion resistance of the replacement material. The project cost is estimated at \$5 million and will require about 8 weeks to complete. The existing secondary superheat outlet tube bank will be removed from the unit and a new replacement bank will be installed.

Unit 2 is a base load unit and already highly utilized. Any anticipated increase in future utilization, though currently not predicted, would be due to system-wide demand growth and unrelated to the repair and replacement activities planned for the upcoming outage. The comparisons of short-term (heat input rate) and long-term impacts (annual utilization) both before and after the proposed outage activities provide reasonable assurance that no change in the method of operation or in emission impacts is anticipated to occur as a result of the planned outage activities.

***Attachment 1*** provides a summary of annual utilization over the most recent period (Table 1), as well as a summary of the most recent period of annual emissions estimates. Data for the 2007 calendar year is not yet available. ***Attachment 2*** graphically depicts hourly heat input readings (as recorded by the Acid Rain CEMS) for the most recent available quarter (3<sup>rd</sup> Quarter, 2007). ***Attachment 3*** summarizes the proposed scope of work for the superheater tube replacement and, as well as process schematics. Additional pollution control upgrades have been proposed and are summarized in ***Attachment 4*** of this application package.

**Scope of Application**

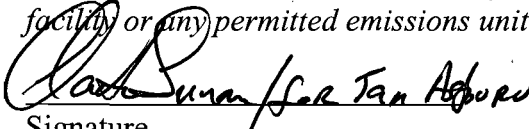
<b>Emissions Unit ID Number</b>	<b>Description of Emissions Unit</b>	<b>Air Permit Type</b>	<b>Air Permit Proc. Fee</b>
002	Fossil Fuel Steam Generator Unit No. 2	AC	

**Application Processing Fee**

Check one:  Attached - Amount: \$\_\_\_\_\_  Not Applicable

**Owner/Authorized Representative Statement**

**Complete if applying for an air construction permit or an initial FESOP.**

1. Owner/Authorized Representative Name : Jan C. Aspuru VP, Power Resources
2. Owner/Authorized Representative Mailing Address... Organization/Firm: Orlando Utilities Commission Street Address: P.O. Box 3193 City: Orlando State: FL Zip Code: 32802
3. Owner/Authorized Representative Telephone Numbers... Telephone: (407) 658 - 6444 ext. Fax: (407) 275 - 4120
4. Owner/Authorized Representative Email Address: <u>jaspuru@ouc.com</u>
5. Owner/Authorized Representative Statement:  <i>I, the undersigned, am the owner or authorized representative of the facility addressed in this air permit application. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof and all other requirements identified in this application to which the facility is subject. I understand that a permit, if granted by the department, cannot be transferred without authorization from the department, and I will promptly notify the department upon sale or legal transfer of the facility or any permitted emissions unit.</i>   Signature  <u>1/18/08</u> Date



**Application Responsible Official Certification**

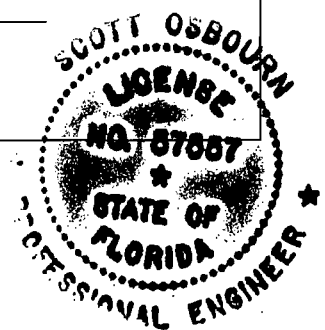
**Complete if applying for an initial/revised/renewal Title V permit or concurrent processing of an air construction permit and a revised/renewal Title V permit. If there are multiple responsible officials, the “application responsible official” need not be the “primary responsible official.”**

1. Application Responsible Official Name:
2. Application Responsible Official Qualification (Check one or more of the following options, as applicable): <input type="checkbox"/> For a corporation, the president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit under Chapter 62-213, F.A.C. <input type="checkbox"/> For a partnership or sole proprietorship, a general partner or the proprietor, respectively. <input type="checkbox"/> For a municipality, county, state, federal, or other public agency, either a principal executive officer or ranking elected official. <input type="checkbox"/> The designated representative at an Acid Rain source.
3. Application Responsible Official Mailing Address... Organization/Firm: Street Address: City: State: Zip Code:
4. Application Responsible Official Telephone Numbers... Telephone: ( ) - ext. Fax: ( ) -
5. Application Responsible Official Email Address:
6. Application Responsible Official Certification: <i>I, the undersigned, am a responsible official of the Title V source addressed in this air permit application. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof and all other applicable requirements identified in this application to which the Title V source is subject. I understand that a permit, if granted by the department, cannot be transferred without authorization from the department, and I will promptly notify the department upon sale or legal transfer of the facility or any permitted emissions unit. Finally, I certify that the facility and each emissions unit are in compliance with all applicable requirements to which they are subject, except as identified in compliance plan(s) submitted with this application.</i>  _____ Signature  _____ Date

**Professional Engineer Certification**

1. Professional Engineer Name: Scott Osbourn Registration Number: 57557
2. Professional Engineer Mailing Address... Organization/Firm: Golder Associates Inc. Street Address: 5100 West Lemon St., Suite 114 City: Tampa State: FL Zip Code: 33609
3. Professional Engineer Telephone Numbers... Telephone: (813) 287 - 1717 ext. 211 Fax: (813) 287 - 1716
4. Professional Engineer Email Address: <u>sosbourn@golder.com</u>
5. Professional Engineer Statement: <i>I, the undersigned, hereby certify, except as particularly noted herein*, that:</i> <i>(1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this application for air permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and</i> <i>(2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.</i> <i>(3) If the purpose of this application is to obtain a Title V air operation permit (check here <input type="checkbox"/> , if so), I further certify that each emissions unit described in this application for air permit, when properly operated and maintained, will comply with the applicable requirements identified in this application to which the unit is subject, except those emissions units for which a compliance plan and schedule is submitted with this application.</i> <i>(4) If the purpose of this application is to obtain an air construction permit (check here <input checked="" type="checkbox"/> , if so) or concurrently process and obtain an air construction permit and a Title V air operation permit revision or renewal for one or more proposed new or modified emissions units (check here <input type="checkbox"/> , if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.</i> <i>(5) If the purpose of this application is to obtain an initial air operation permit or operation permit revision or renewal for one or more newly constructed or modified emissions units (check here <input type="checkbox"/> , if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit.</i>  _____ Signature  _____ Date 1/21/08  (seal)

\* Attach any exception to certification statement.



**ATTACHMENT 1**

**Unit 2 Baseline Summary**

### Attachment 1. Data Summary

This attachment is a supplement to the construction permit application for OUC Stanton Unit 2. Table 1 provides annual utilization data (past and future projected). Table 2 provides a summary of the most recent years of reported annual emissions data. Data for the 2007 calendar year is not yet available.

The utilization comparison (Table 1) was made for three parameters that are considered representative of annual operating measurements: 1) heat input in million Btu per year (MMBtu/yr), 2) net generation in MW-hours (net, MW-hrs) and 3) hours of operation per year. These data are summarized below in tabular form.

**Table 1. Annual Utilization Summary**

Year of Operation	Heat Input (MMBtu/yr)	Generation (net, MW-hrs)	Hours Operated
2003	28,477,649	2,956,008	7,261
2004	30,203,431	3,062,770	7,728
2005	32,905,551	3,405,859	7,865
2006	34,820,403	3,197,451	8,218
<i>Highest 2-yr Avg</i> 2005-2006	33,862,977	3,301,655	8,042

A summary of annual reported emissions for all criteria pollutants is presented below in Table 2. The summary was obtained from AOR data as reported for the most recent period.

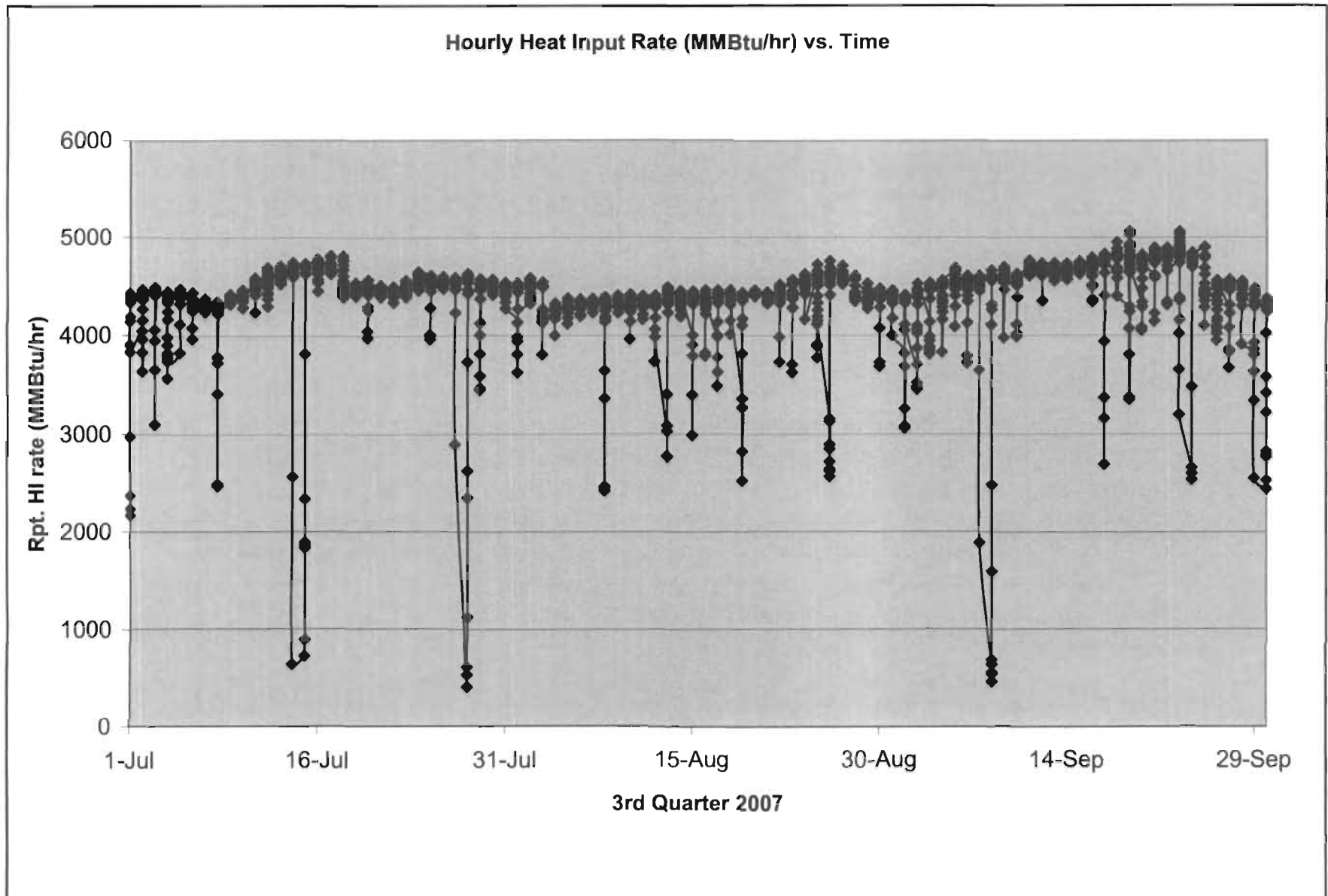
**Table 2. Annual Emissions Summary**

Year of Operation	NOx (TPY)	SO2 (TPY)	CO (TPY)	PM (TPY)	PM10 (TPY)	VOC (TPY)
2003	2,420	2,368	358.5	95.2	64.3	40.8
2004	2,564	2,501	371.1	112.8	112.8	44.9
2005	2,682	2,779	385.1	78.1	78.1	44.3
2006	2,855	2,640	399.7	100.0	100.0	47.3
<i>Highest 2-yr Avg</i> 2005-2006	2,769	2,710	392.4	89.1	89.1	45.8

**ATTACHMENT 2**

**Unit 2 Heat Input Summary**

Attachment 2: OUC Stanton Energy Center, Unit 2



Source: U.S.EPA Clean Air Markets (<http://camdataandmaps.epa.gov/gdm/>)

**ATTACHMENT 3**

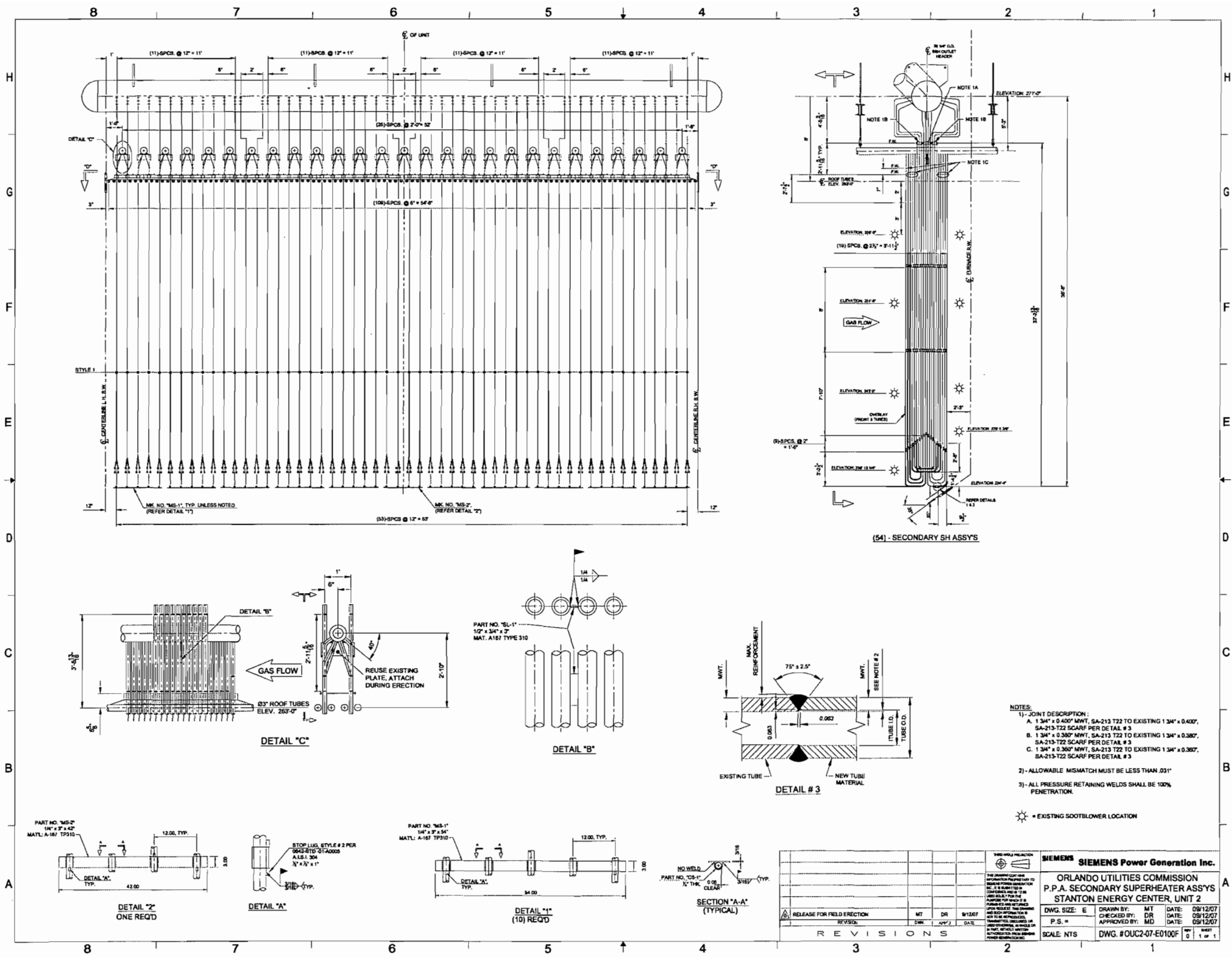
**Unit 2 Proposed Scope of Work  
Process Schematics**

### **Attachment 3. Proposed Scope of Work**

#### Design and Fabricate Secondary Superheat Outlet Bank.

1. Design a replacement Secondary Superheat Outlet Tube Bank using at a minimum SA213TP304H. Source of material and quality control methods shall be provided at bid opening and be approved by OUC engineering prior to fabrication.
2. Fabricate to existing dimensions in Stanton Energy Center Unit 2. Tube connections will be above the seal plate and above existing welds, which are located inches above the seal plates for the inlet side. Outlet side connections will be located above the height of the inlet headers.
3. Meet existing design criteria for temperatures, pressures and steam flows. Provide performance guarantees for these design criteria.
4. Three levels of Inconel Tube Alignment brackets or "D" clip spacer lugs, spacer bars/clips (or equiv) on the bottom of the tube bundles, scallop plates and crown seals shall be included.
5. Contractor is responsible for all dimensions associated with this bid.
6. Materials will be shipped ready for installation in the boiler, prepared with the ends securely capped.
7. Any modifications to the material required for proper fit shall be back-charged to the original purchase amount.
8. Prior to fabrication provide OUC Engineering with material certifications (in English) for all materials to be used in the tube bank's construction. Tube material tests, hydrostatic and/or x-ray examination results shall be provided (in English) to OUC Engineering for review and approval prior to shipment.
9. Material options and pricing for improved coal ash corrosion, oxidation, and erosion resistance shall be provided along with options for tube claddings or other methods of improved corrosion and erosion resistance. (ex. 347 stainless steel with Inconel cladding.)
10. Deliver five extra tubes of the same material as the tube bank of approximately twenty five foot length for warehouse stock.





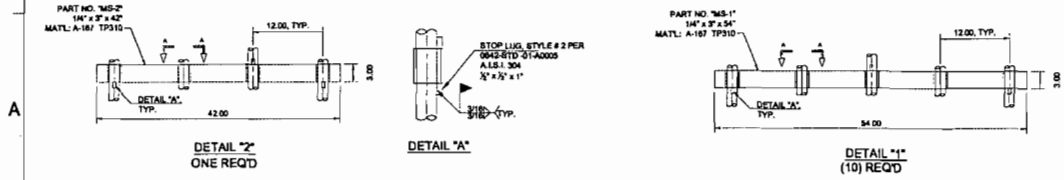
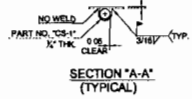
(54) - SECONDARY SH ASSYS

- NOTES:**
- 1) - JOINT DESCRIPTION:
    - A. 1 3/4" x 0.400" MWMT, SA-213 T22 TO EXISTING 1 3/4" x 0.400", SA-213-T22 SCARF PER DETAIL # 3
    - B. 1 3/4" x 0.360" MWMT, SA-213 T22 TO EXISTING 1 3/4" x 0.360", SA-213-T22 SCARF PER DETAIL # 3
    - C. 1 3/4" x 0.360" MWMT, SA-213 T22 TO EXISTING 1 3/4" x 0.360", SA-213-T22 SCARF PER DETAIL # 3
  - 2) - ALLOWABLE MISMATCH MUST BE LESS THAN .031"
  - 3) - ALL PRESSURE RETAINING WELDS SHALL BE 100% PENETRATION.

☼ = EXISTING SOOTBLOWER LOCATION

THE DESIGNER OR USER OF THIS DRAWING AGREES TO HOLD SIEMENS POWER GENERATION INC. (S) IN HARMLESSNESS FROM ALL LIABILITY FOR THE DESIGN OR CONSTRUCTION OF THE PROJECT OR FOR ANY DAMAGE TO PERSONS OR PROPERTY OR FOR ANY LOSS OF PROFITS OR BUSINESS OR FOR ANY OTHER LOSS OR DAMAGE OF ANY KIND OR NATURE, INCLUDING REASONABLE ATTORNEY'S FEES AND COSTS OF LITIGATION, IN CONNECTION WITH THE DESIGN OR CONSTRUCTION OF THE PROJECT OR FOR ANY DAMAGE TO PERSONS OR PROPERTY OR FOR ANY LOSS OF PROFITS OR BUSINESS OR FOR ANY OTHER LOSS OR DAMAGE OF ANY KIND OR NATURE, INCLUDING REASONABLE ATTORNEY'S FEES AND COSTS OF LITIGATION, IN CONNECTION WITH THE DESIGN OR CONSTRUCTION OF THE PROJECT.		<b>SIEMENS Power Generation Inc.</b>	
		ORLANDO UTILITIES COMMISSION P.P.A. SECONDARY SUPERHEATER ASSYS STANTON ENERGY CENTER, UNIT 2	
DWG. SIZE: E	DRAWN BY: MT	DATE: 09/12/07	SHEET 1 of 1
P.S. =	CHECKED BY: DR	DATE: 09/12/07	
SCALE: NTS	DWG. # OUC2-07-E0100F		

REVISIONS	DATE	BY	APP'D.
RELEASE FOR FIELD ERECTION	MT	DR	9/13/07
REVISION	DATE	BY	DATE



DETAIL "B"

DETAIL "C"

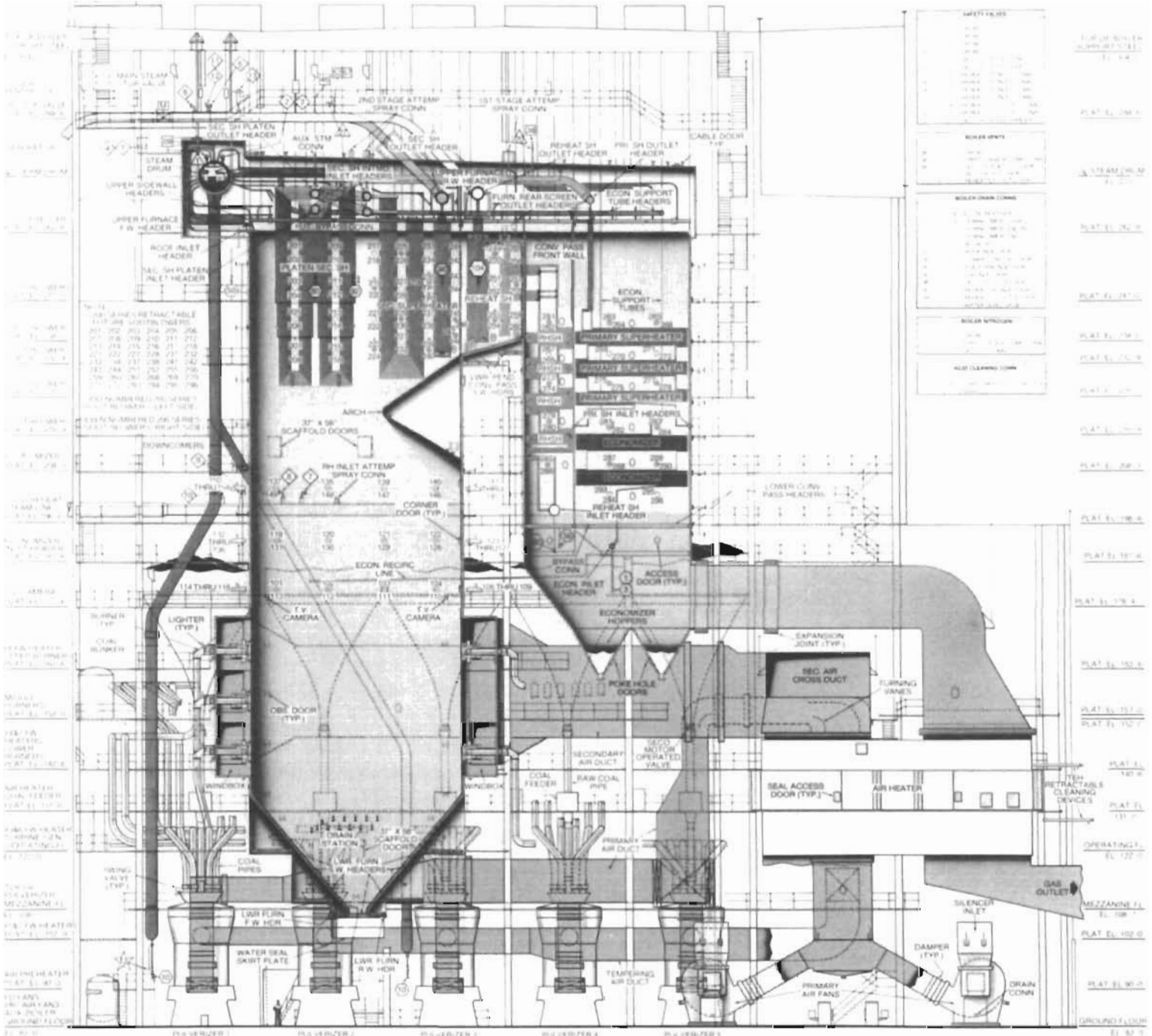
DETAIL # 3

DETAIL "2" ONE REQD

DETAIL "A"

DETAIL "1" (10) REQD

BEST AVAILABLE COPY



<b>SAFETY VALVES</b>	PLAT. EL. 204.4
<b>BOILER RWTS</b>	PLAT. EL. 204.0
<b>BOILER DRUM CORNS</b>	PLAT. EL. 202.0
<b>BOILER W/DRUM</b>	PLAT. EL. 204.0
<b>AUX CLEANING CORN</b>	PLAT. EL. 204.0
<b>LOWER CURV PASS HEADERS</b>	PLAT. EL. 204.0
<b>ACCESS DOOR (TYP)</b>	PLAT. EL. 198.4
<b>ACCESS DOOR (TYP)</b>	PLAT. EL. 197.6
<b>ACCESS DOOR (TYP)</b>	PLAT. EL. 196.4
<b>ACCESS DOOR (TYP)</b>	PLAT. EL. 197.6
<b>ACCESS DOOR (TYP)</b>	PLAT. EL. 192.7
<b>ACCESS DOOR (TYP)</b>	PLAT. EL. 191.0
<b>ACCESS DOOR (TYP)</b>	PLAT. EL. 192.7
<b>ACCESS DOOR (TYP)</b>	PLAT. EL. 187.0
<b>ACCESS DOOR (TYP)</b>	PLAT. EL. 191.0
<b>ACCESS DOOR (TYP)</b>	OPERATING F. EL. 122.7
<b>ACCESS DOOR (TYP)</b>	MEZZANINE F. EL. 108.7
<b>ACCESS DOOR (TYP)</b>	PLAT. EL. 102.0
<b>ACCESS DOOR (TYP)</b>	PLAT. EL. 90.0
<b>ACCESS DOOR (TYP)</b>	GROUND FLOOR EL. 82.9

SECTIONAL SIDE VIEW SHOWN  
(LOOKING SOUTH)

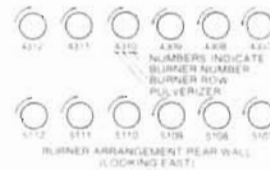
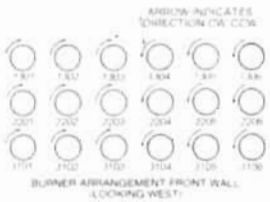
**ORLANDO UTILITIES COMMISSION  
STANTON ENERGY CENTER, UNIT NO. 1  
ORLANDO, FLORIDA**

CAPACITY: LB STEAMPER-HOUR: 1,300,000 SUPER-HEATER OUTLET TEMPERATURE F: 1,000  
SUPER-HEATER OUTLET PRESSURE: PSI: 2,840 RE-HEAT OUTLET TEMPERATURE F: 1,000

BLACK & VEATCH ENGINEERS-ARCHITECTS  
BARBOCK & WILCOX RADIANT REHEAT BOILER

**COLOR KEY**

(Light Gray)	AIR
(Medium Gray)	GAS
(Dark Gray)	WATER
(Black)	STEAM
(White)	REHEAT



## **ATTACHMENT 4**

### **Unit 2—Recent Proposed Air Construction Permit Activity Summary**

#### **Attachment 4. Summary of Recent Proposed Air Construction Permit Activities for Stanton Unit 2**

1. **Neural Network** -- The permit to install issued 1/10/07.
2. **Dibasic Acid** -- The permit to install issued 1/10/07.
3. **Low NO<sub>x</sub> Burners and Overfire Air** -- Amendment Request #6, originally submitted to DEP 12/14/06. Desired construction start date is March 2008 for Unit 2 and October 2008 for Unit 1. The purpose of installing the Low NO<sub>x</sub> Burners and Overfire Air System is to lower the level of NO<sub>x</sub> emissions from Stanton Energy Center Units 1 and 2 while avoiding adverse effects to the boilers and the unit's performance/reliability. (Draft Permit issued)
4. **Forced Oxidation** -- Amendment Request #7, originally submitted 12/14/07 and ready for construction to begin in September. The function of the Forced Oxidation Air System is to provide the additional air needed to increase oxidation of the sulfite ions to sulfate within the scrubber slurry. The advantages of adding a forced oxidation system include the reduced FGD system maintenance through reduced scaling and plugging in the modules and improved byproduct solids handling properties due to higher quality. (Final Permit issued)
5. **Flyash/Blending Facility** -- Amendment Request #10, originally submitted 2/2/07, received RAI 3/7/07. These improvements are proposed to allow the blending of Units 1 & 2 ashes with imported ashes to produce larger quantities of high quality, marketable, pozzolan grade fly ash (a non-cementitious additive to concrete that partially replaces cement and improves concrete durability and workability), and reduce quantities of fly ash going to the onsite landfill. (Draft Permit issued)